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1910

No. 5

THE

JOHNS HOPKINS UNIVERSITY CIRCULAR

THE

JOHNS HOPKINS UNIVERSITY

REGISTER

1909-10

BALTIMORE, MARYLAND
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MAY, 1910

[New Series, 1910, No. 5]
[Whole Number, 225]

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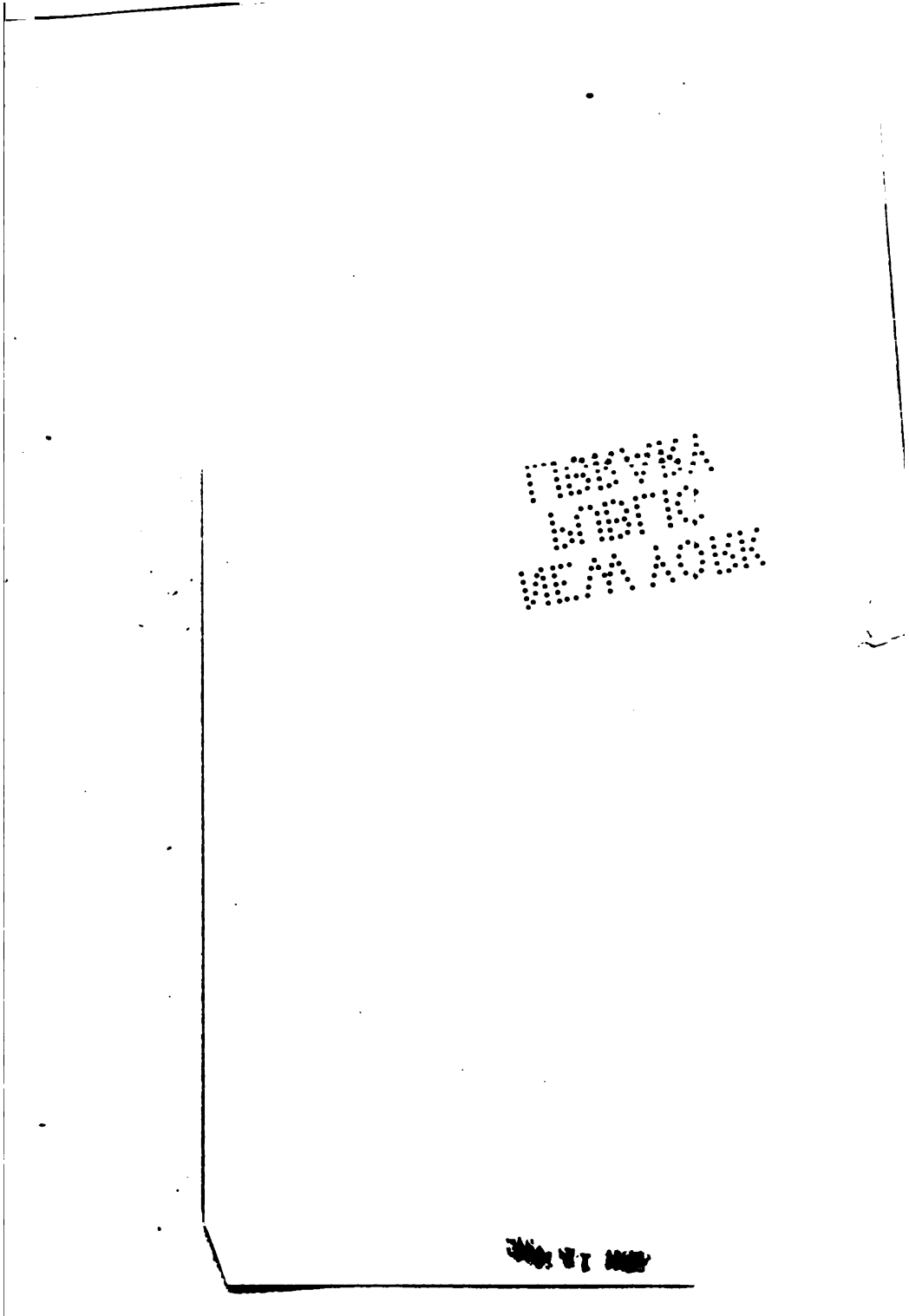

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October 4—Instruction begins.
November 24—Thanksgiving Day. All classes suspended.
December 17—Last day for applications for the University Scholarships.
December 20-23—Undergraduate Examinations.
December 24—The Christmas Recess begins.
December 25—Christmas Day.

1911

January 3—Instruction resumed.
February 22—Commemoration Day. All classes suspended. Public exercises at 11 o'clock.
April 1—Last day for applications for the Johnston Scholarships and the Bruce Fellowship.
April 7-12—Undergraduate Examinations.
April 13—The Easter Recess begins.
April 20—Instruction resumed.
May 1—Last day for applications for the University Fellowships.
June 1—Last day for applications for the Hopkins Scholarships offered to graduate students from North Carolina and Virginia.
June 2-8—Final Undergraduate Examinations.
June 6-8—Oral Examinations for the degree of Doctor of Philosophy.
June 6-9—Entrance Examinations of Undergraduates.
June 13—Commencement Day. Public exercises at 4 o'clock.
September 26-29—Entrance Examinations of Undergraduates.
October 3—Instruction begins.

THE
JOHNS HOPKINS
UNIVERSITY CIRCULAR

New Series, 1910, No. 5 MAY, 1910 Whole Number, 225

HISTORICAL STATEMENT

The Johns Hopkins University was founded by a merchant of Baltimore, Johns Hopkins, who bequeathed the greater part of his estate for the establishment of a university and a hospital. The University was incorporated August 24, 1867, the certificate of incorporation reading as follows:

CERTIFICATE OF INCORPORATION

Know all men by these presents, that we, Thomas M. Smith, William Hopkins, Lewis N. Hopkins, John W. Garrett, Alan P. Smith, John Fonerden, George W. Dobbin, George M. Gill, Andrew Sterett Ridgely, Thomas Donaldson, James A. L. McClure and Charles J. M. Gwinn, being citizens of the United States of America, and of the State of Maryland, and being desirous to form a corporation for the purpose of organizing a "University" for the promotion of education in the State of Maryland, do hereby declare and certify that we do, by this instrument of writing, and by virtue of and under the provisions of an Act of the General Assembly of Maryland, passed at the January session thereof in the year eighteen hundred and sixty-seven, and being the Act of eighteen hundred and sixty-seven, chapter three hundred and seventy-nine, form a corporation, under the name of "The Johns Hopkins University," for the promotion of education in the State of Maryland, which shall be governed and controlled by twelve Trustees, who shall manage the concerns thereof, and which said twelve Trustees shall be Francis T. King, Lewis N. Hopkins, Thomas M. Smith, William Hopkins, John Fonerden*, John W. Garrett, Francis White, Charles J. M. Gwinn,

*On the death of John Fonerden, James Carey Thomas was elected to fill the vacancy.

Galloway Cheston, George W. Dobbin, Reverdy Johnson, junior, and George William Brown, and which said University shall be located in Baltimore County, in the State of Maryland.

Witness our hands and seals, set hereto on this twenty-fourth day of August in the year eighteen hundred and sixty-seven.

THOMAS M. SMITH,	(SEAL)
WILLIAM HOPKINS,	(SEAL)
LEWIS N. HOPKINS,	(SEAL)
JOHN W. GARRETT,	(SEAL)
ALAN P. SMITH,	(SEAL)
JOHN FONERDEN,	(SEAL)
GEORGE W. DOBBIN,	(SEAL)
GEORGE M. GILL,	(SEAL)
ANDREW STERETT RIDGELY,	(SEAL)
THOMAS DONALDSON,	(SEAL)
JAMES A. L. MCCLURE,	(SEAL)
CHARLES J. M. GWINN,	(SEAL)

Witness: ALLEN E. FORRESTER.

The following amendments to the charter have been enacted by the State Legislature.

I

AN ACT to grant certain additional powers to "The Johns Hopkins University," a corporation incorporated under the General Laws of Maryland.

Section 1. Be it enacted by the General Assembly of Maryland, That "The Johns Hopkins University," a corporation duly incorporated by certificate, recorded in the office of the Clerk of the Circuit Court for Baltimore County, shall have powers to establish branches of the said University in the City of Baltimore, to hold, or to purchase and hold, all property in said City, needed for the successful conducting of the branches of the said University in said City, and to keep and maintain a principal office in said City for the conduct of the business of the said University.

Section 2. And be it enacted, That the said "The Johns Hopkins University" shall have power to admit students of the said University, who shall merit the distinction, to the office and profession of Surgeon, or to the degree of Doctor of Medicine, or of Doctor of Laws, or of Bachelor or Master of Arts; to grant to students in such University such certificates of proficiency and attainments in any special study as the said University may see proper to confer; and to grant the honorary degree of Doctor of Laws, Doctor of Medicine, and Master of Arts, or such other degrees as may be proper, to any person who may merit such distinction, whether such person be a student of such University or not.

Section 3. And be it enacted, That this Act shall take effect from its passage.

Approved March 22, 1876.

II

AN ACT to authorize the Trustees of the Johns Hopkins University, a corporation incorporated under the General Laws of Maryland, to make and constitute the President for the time being of its University and each of his successors in said office, during their respective terms thereof, a member ex-officio of the Board of Trustees of the Johns Hopkins University, in addition to the number of twelve Trustees of said University now authorized by law.

Section 1. Be it enacted by the General Assembly of Maryland, that the Trustees of the Johns Hopkins University, a corporation duly incorporated by certificate under the General Laws of Maryland, be and they are hereby authorized and empowered to make and constitute the President for the time being of the Johns Hopkins University and each of his successors in said office, during their respective terms thereof, a member ex-officio of said Board of Trustees in addition to the number of twelve Trustees of said University now authorized by law.

Section 2. And be it enacted that this Act shall take effect from the date of its passage.

Approved April 4, 1892.

As stated in the foregoing certificate, the corporate name of the institution is "The Johns Hopkins University."

The Board of Trustees organized June 13, 1870, and held their first business meeting February 6, 1874. The founder had died December 24, 1873, in the seventy-ninth year of his age,—having been born May 19, 1795. The election of a President of the University took place December 30, 1784, the choice falling upon Daniel Coit Gilman, at that time President of the University of California. President Gilman was inaugurated February 22, 1876, and instruction began October 3, following. The Johns Hopkins Hospital was dedicated May 7, 1889, and this paved the way for the opening of the medical school of the University four years later (October 1, 1893).

President Gilman resigned his office February 22, 1901, after a service of twenty-five years, and he was succeeded by Ira Remsen, Professor of Chemistry in the University,

whose election took place June 3, 1901. On the twenty-first and twenty-second of February, 1902, the University celebrated the completion of twenty-five years of work, and President Remsen was inaugurated.

The work of the University began in two houses at the corner of Howard and Little Ross Streets, in Hopkins Hall and a chemical laboratory on Little Ross Street,—the last two buildings having been erected by the Trustees. As the need arose, other buildings were constructed,—including a considerable addition to the chemical laboratory, a biological laboratory, a physical laboratory, a gymnasium, a home for the Young Men's Christian Association (the gift of Mr. Eugene Levering), and finally McCoy Hall, a large central building containing offices of administration, assembly room, the general library, and numerous smaller rooms for seminaries, department libraries, classes in languages, history, etc. The medical school is housed in several buildings in another section of the city, adjoining the Johns Hopkins Hospital.

The Hospital forms a part of the medical school of the University, in accordance with the expressed wish of the founder. It occupies a commanding site facing North Broadway. The buildings include a central structure chiefly devoted to administration, two large private wards, a considerable number of separate buildings containing the public wards, a large dispensary building, a surgical building and amphitheatre, a pathological institute, and a nurses' home. The Harriet Lane Home for Invalid Children, the Phipps Psychiatric Clinic, and the Phipps Dispensary for the Treatment of Tuberculosis are important adjuncts to the Hospital and are situated within its grounds.

At the time of President Remsen's inauguration, it was announced that a suburban site had been given to the University by Messrs. William Wyman, William Keyser, Francis M. Jencks, Julian LeRoy White, and William H.

Buckler, of Baltimore, and Samuel Keyser, of New York. This site comprised originally one hundred and seventy-six acres of land within the city limits, about two miles directly north of the Washington Monument. Fifty-six acres have been deeded to the city for a public park. The hope was expressed by the donors that the sum of one million dollars would be contributed by the friends of the University within a certain time, to be added to the permanent endowment funds of the University. This hope was realized July 1, 1902. The development of the new site is in progress. A botanical laboratory and greenhouse have been erected, and a fine athletic field is now in use by the students. A general scheme of arrangement of the future buildings has been adopted by the trustees, as the result of a competition by selected architects, and the plans of several of the most important structures have been completed. The funds required for these buildings have not yet been supplied, and, until that need is met, a removal is not possible.

The original endowment of the University amounted to somewhat over $3,000,000. This has been supplemented by several gifts, including the Endowment Fund of 1902 ($1,000,000), the John W. McCoy Fund ($500,000), the Women's Medical School Fund ($100,000), the Mary Elizabeth Garrett Fund ($307,000), the Adoniram J. Robinson Fund ($42,000), the Herbert B. Adams Fund ($42,000), the Johnston Scholarship Fund ($90,000), the Donovan Fund ($100,000), and several others. The income-bearing funds have a "book value" of $4,580,000; the real estate and buildings, books, scientific apparatus, and general equipment are valued at $1,900,000. The assets of the University have thus a total value of about $6,500,000.

In June, 1909, the General Education Board offered to contribute to the University the sum of $250,000 towards the endowment, provided the institution secures, on or before December 31, 1910, a supplemental sum of $750,000,

in cash or pledges. Under the terms of this offer one-half of the million dollars thus acquired may be used in the construction of buildings; the remainder is to be added to the permanent endowment. The Trustees, aided by the Alumni, are now engaged in efforts to obtain the needed subscriptions, and it is confidently expected that the conditions of the gift will be met by the date specified.

The Legislature of Maryland has recently made an appropriation of $25,000 a year for 1911 and 1912.

BOARD OF TRUSTEES

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The President of the University, *ex officio*

COMMITTEES

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Theodore Marburg	

The President of the Board, *ex officio*
The President of the University, *ex officio*

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Theodore Marburg	

The President of the Board, *ex officio*

TREASURER OF THE UNIVERSITY

Charles J. Meyer

FACULTY

Arranged in the several groups in the order of appointment

IRA REMSEN, M. D., PH. D., LL. D., *President of the University and B. N. Baker Professor of Chemistry.* 214 W. Monument St.

A. B., College of the City of New York, 1865; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1867; Ph. D., University of Goettingen, 1870; LL. D., Columbia University, 1893, Princeton University, 1896, Yale University, 1901, University of Toronto, 1902, Harvard University, 1909; D. C. L., University of the South, 1907; Professor of Chemistry in Williams College, 1872-76, and previously Assistant in Chemistry in the University of Tuebingen; Corresponding Member of the British Association; Foreign Member, Chemical Society of London; Honorary Member, Pharmaceutical Society of Great Britain; Secretary of the Academic Council, 1887-1901; Director of the Chemical Laboratory, 1876-1908; President of the National Academy of Sciences; Medalist of the Society of Chemical Industry, 1904, and President, 1909-10; *Editor of the American Chemical Journal.*

BASIL L. GILDERSLEEVE, PH. D., LL. D., D. LITT., *Francis White Professor of Greek.* 1002 N. Calvert St.

A. B., Princeton University, 1849, and A. M., 1852; Ph. D., University of Goettingen, 1853; LL. D., College of William and Mary, 1860, Harvard University, 1886, University of Chicago, 1901, and Yale University, 1901; D. C. L., University of the South, 1884; L. H. D., Princeton University, 1899; Hon. Litt. D. (Cantab.), Hon. D. Litt. (Oxon.), 1905; Professor of Greek in the University of Virginia, 1856-76; Professor of Latin in the University of Virginia, 1861-66; Hon. Member of the Cambridge Philological Society, of the Philological Syllogos of Constantinople, of the Archaeological Society of Athens, and of the Society for the Promotion of Hellenic Studies; Corresponding Fellow of the British Academy, 1907; *Editor of the American Journal of Philology.*

PAUL HAUPT, PH. D., LL. D., K. R. E., *W. W. Spence Professor of the Semitic Languages and Director of the Oriental Seminary.*

Gymnasium Augustum, Goerlitz, 1876; Ph. D., University of Leipsic, 1878; LL. D., University of Glasgow, 1902; Privatdocent in the University of Goettingen, 1880-83, and Professor of Assyriology in the same, 1883-89; Honorary Curator of the Division of Historic Archaeology, U. S. National Museum; Knight of the Royal Prussian Order of the Red Eagle; *Co-editor of the Assyriological Library, and of Contributions to Assyriology and Comparative Semitic Philology; Editor of the Sacred Books of the Old Testament.* 2511 Madison Av.

WILLIAM H. WELCH, M. D., LL. D., *Baxley Professor of Pathology.*

A. B., Yale University, 1870; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1875; M. D. (Hon.), University of Pennsylvania, 1894; LL. D., Western Reserve University, 1894, Yale University, 1896, Harvard University, 1900, University of Toronto, 1903, and Columbia University, 1904; Professor of Pathological Anatomy and General Pathology in the Bellevue Hospital Medical College, 1879-84; Dean of the Medical Faculty, 1889-98; Member of the National Academy of Sciences; Hon. Member, Viennese Society of Physicians; President of the Board of Directors of the Rockefeller Institute for Medical Research; *Pathologist to the Johns Hopkins Hospital.*

807 St. Paul St.

EDWARD H. GRIFFIN, D. D., LL. D., *Professor of the History of Philosophy and Dean of the College Faculty.*

A. B., Williams College, 1862, and A. M., 1865; Union Theological Seminary, N. Y., 1867; D. D., Amherst College, 1880; LL. D., Princeton University, 1888, and Williams College, 1905; Professor of Latin in Williams College, 1872-81, Professor of Rhetoric, 1881-86, and Mark Hopkins Professor of Intellectual and Moral Philosophy, 1886-89; *Secretary of the Academic Council.*

1027 N. Calvert St.

WILLIAM OSLER, M. D., LL. D., D. C. L., F. R. S., *Honorary Professor of Medicine.* Oxford, England.

M. D., McGill University, 1872; LL. D., McGill, 1895, Aberdeen, 1898, Toronto, 1899, Yale, 1901, Harvard, 1904, Johns Hopkins, 1905; D. C. L., Edinburgh, 1898, and Trinity University (Toronto), 1902; M. D. (Hon.), University of Oxford, 1905; Fellow of the Royal Society of London; Fellow of the Royal College of Physicians, London; Professor of the Institutes of Medicine, McGill University, 1874-84; Professor of Clinical Medicine, University of Pennsylvania, 1884-89; Dean of the Medical Faculty, 1898-99; Professor of the Principles and Practice of Medicine, 1889-1905; Physician-in-Chief, the Johns Hopkins Hospital, 1889-1905; Regius Professor of Medicine, University of Oxford.

HENRY M. HURD, M. D., LL. D., *Professor Emeritus of Psychiatry.*

A. B., University of Michigan, 1863, M. D., 1866, A. M., 1870, and LL. D., 1895; Superintendent of the Eastern Michigan Hospital, 1878-89; Professor of Psychiatry, Johns Hopkins University, 1889-1906; *Editor of the Johns Hopkins Hospital Bulletin and of the Johns Hopkins Hospital Reports; Editor of the American Journal of Insanity; Superintendent of the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

HOWARD A. KELLY, M. D., LL. D., HON. F. R. C. S., *Professor of Gynecology.* 1406 Eutaw Place.

A. B., University of Pennsylvania, 1877, M. D., 1882, and Associate Professor of Obstetrics, 1888-89; LL. D., University of Aberdeen, 1906, Washington and Lee University, 1906, University of Pennsylvania, 1907; Associate Foreign Member of the Society of Obstetrics, Gynecology and Pediatrics, and of the Chirurgical Society, Paris; Corresponding Member, Obstetrical Society, Leipsig; Fellow, British Gynecological Society; Hon. Fellow of the Edinburgh Obstetrical Society, Glasgow Obstetrical and Gynecological Society, Royal Academy of Medicine (Ireland), Royal College of Surgeons, Edinburgh; Hon. Member of the Royal Medical Society of Edinburgh and of the Italian Society of Obstetrics and Gynecology, Rome; Fellow of the American Gynecological Society; *Gynecologist in Chief to the Johns Hopkins Hospital.*

MAURICE BLOOMFIELD, PH. D., LL. D., *Professor of Sanskrit and Comparative Philology.* 861 Park Ave.

A. M., Furman University, 1877; Fellow, Johns Hopkins University, 1878-79, and Ph. D., 1879; LL. D., Princeton University, 1896, Furman University, 1908; Foreign Member, Royal Bohemian Society in Prague, 1896; Honorary Member, Finno-Ugrian Society, Helsingfors, 1898; Hardy Prize of the Royal Bavarian Academy of Sciences in Munich, 1908; President of the American Oriental Society, 1910-11.

A. MARSHALL ELLIOTT, PH. D., LL. D., *Professor of the Romance Languages.* 1028 N. Calvert St.

A. B., Haverford College, 1866, and A. M., 1878; A. B., Harvard University, 1868; Ph. D. (Hon.), Princeton University, 1877; LL. D., Wake Forest College, 1891, and Haverford College, 1908; Chevalier of the Legion of Honor of France; *Editor of Modern Language Notes.*

WILLIAM S. HALSTED, M. D., D. SC., LL. D., HON. F. R. C. S., *Professor of Surgery.* 1201 Eutaw Place.

A. B., Yale University, 1874; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1877, and D. Sc., 1904; LL. D., Yale University, 1904, and University of Edinburgh, 1905; Honorary Fellow of the Royal College of Surgeons, London, 1900, and Edinburgh, 1905; formerly Attending Surgeon to the Presbyterian and Bellevue Hospitals, Chief Surgeon to the Roosevelt Hospital Dispensary, and Surgeon in Chief to the Emigrant Hospital, New York; *Surgeon in Chief to the Johns Hopkins Hospital.*

HARMON N. MORSE, PH. D., *Professor of Inorganic and Analytical Chemistry and Director of the Chemical Laboratory.*

A. B., Amherst College, 1873; Ph. D., University of Goettingen, 1875; Instructor in Chemistry, Amherst College, 1875-76; Member of the National Academy of Sciences.
The Cecil, N. Eutaw St.

HENRY WOOD, PH. D., *Professor of German.* 109 W. North Av.

A. B., Haverford College, 1869; Ph. D., University of Leipsic, 1879; President of the American Folk-Lore Society, 1898.

EDWARD RENOUF, PH. D., *Collegiate Professor of Chemistry.*

Ph. D., University of Freiburg, 1880; Assistant in Chemistry in the University of Munich, 1880-85. 416 W. Hoffman St.

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Ph. B., University of Michigan, 1883, and A. M. (Hon.), 1903; M. D., University of Strassburg, 1888; Professor of Materia Medica and Therapeutics, University of Michigan, 1891-93; *Co-editor of the Journal of Biological Chemistry; Editor of the Journal of Pharmacology and Experimental Therapeutics.*

Charles St. Av. (P. O. Sta. L.)

WILLIAM H. HOWELL, PH. D., M. D., LL. D., *Professor of Physiology and Dean of the Medical Faculty.* 232 W. Lanvale St.

A. B., Johns Hopkins University, 1881, Fellow, 1882-84, and Ph. D., 1884; LL. D., Trinity College (Conn.), 1901; M. D. (Hon.), University of Michigan, 1890, and Lecturer and Professor of Physiology and Histology, 1889-92; Associate Professor of Physiology, Harvard University, 1892-93; Member of the National Academy of Sciences; *Associate Editor of the American Journal of Physiology.*

FRANKLIN P. MALL, M. D., SC. D., LL. D., *Professor of Anatomy.*

M. D., University of Michigan, 1883, A. M. (Hon.), 1900, and Sc. D., 1903; LL. D., University of Wisconsin, 1904; Fellow, Johns Hopkins University, 1886-88, and Instructor in Pathology, 1888-89; Adjunct Professor of Vertebrate Anatomy, Clark University, 1889-92; Professor of Anatomy, University of Chicago, 1892-93; Member of the National Academy of Sciences; *Co-editor of the American Journal of Anatomy and of the Journal of Morphology.*

1514 Bolton St.

JAMES W. BRIGHT, PH. D., LL D., D. LITT., *Caroline Donovan Professor of English Literature.* 246 W. Lanvale St.

A. B., Lafayette College, 1877; Fellow, Johns Hopkins University, 1880-1882, and Ph. D., 1882; LL. D., Wake Forest College, 1907; D. Litt., Lafayette College, 1907; Hon. Secretary for America (South and West) of the Early English Text Society; *Associate Editor of Modern Language Notes.*

WILLIAM HAND BROWNE, M. D., *Professor of English Literature.*

M. D., University of Maryland, 1850; Librarian and Associate, 1879-91.

Sherwood.

HERBERT EVELETH GREENE, PH. D., *Collegiate Professor of English.*

A. B., Harvard University, 1881, A. M., 1884, and Ph. D., 1888; Professor of English in Wells College, 1891-93. 1019 St. Paul St.

WM. BULLOCK CLARK, PH. D., LL. D., *Professor of Geology and Director of the Geological Laboratory.* 8 E. Read St.

A. B., Amherst College, 1884; Ph. D., University of Munich, 1889; LL. D., Amherst College, 1904; Foreign Correspondent, Geological Society of London; Member of the National Academy of Sciences; *Associate Editor of the Journal of Geology; Director of the Maryland State Weather Service; Executive Officer and Member of the Maryland State Forestry Commission; State Geologist of Maryland.*

LORRAIN S. HULBURT, PH. D., *Collegiate Professor of Mathematics.*

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A. B., Johns Hopkins University, 1886, Fellow, 1887-88, and Ph. D., 1890; LL. D., Washington College, 1907; Honorary Member of the Royal Institution of Great Britain and of the French Physical Society; Member of the National Academy of Sciences; *Assistant Editor of the Astrophysical Journal; Associate Editor of the American Journal of Science.*

J. WHITRIDGE WILLIAMS, M. D., D. SC., *Professor of Obstetrics.*

A. B., Johns Hopkins University, 1886; M. D., University of Maryland, 1888, and D. Sc. (Hon.), 1907; Gynecologist, Union Protestant Infirmary; *Obstetrician in Chief to the Johns Hopkins Hospital and Director of the Dispensary.* 1128 Cathedral St.

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A. B., University of Cambridge, 1883, A. M., 1886, and Sc. D., 1898; Professor in Haverford College, 1888-1900; *Co-editor of the Bulletin of the American Mathematical Society; Editor of the American Journal of Mathematics.*

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A. B., Johns Hopkins University, 1880, Fellow, 1882, and Ph. D., 1885; Professor of Mathematics (1886-89) and of Physics (1889-94), Case School of Applied Science; Associate Professor of Physical Geology, University of Chicago, 1895-97. 608 Cathedral St.

ROBERT W. WOOD, A. B., LL. D., *Professor of Experimental Physics.*

A. B., Harvard University, 1891; LL D., Clark University, 1909; Honorary Fellow in Chemistry, University of Chicago, 1892-94; Fellow of the London Physical Society; Hon. Fellow of the Royal Microscopical Society, London; Instructor and Assistant Professor of Physics in the University of Wisconsin, 1897-1901; Rumford Medalist, American Academy of Arts and Sciences, 1909. 815 St. Paul St.

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A. B., University of Vermont, 1884; Ph. D., Johns Hopkins University, 1889.

JACOB H. HOLLANDER, PH. D., *Professor of Political Economy.*

A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894; Treasurer of the Island of Porto Rico, 1900-01; Special Commissioner Plenipotentiary to Santo Domingo, 1905-06. 335 Dolphin St.

EDWARD B. MATHEWS, PH. D., *Professor of Mineralogy and Petrography.* 1410 Linden Av.

A. B., Colby University, 1891; Fellow, Johns Hopkins University, 1893-94, and Ph. D., 1894; *Assistant State Geologist of Maryland.*

HARRY C. JONES, PH. D., *Professor of Physical Chemistry.*

A. B., Johns Hopkins University, 1889, Fellow, 1891-92, and Ph. D., 1892; *Co-editor, Journal de Chimie Physique (Geneve); Assistant Editor, Physikalisch-chemisches Centralblatt.* 2523 Madison Av.

LEWELLYS F. BARKER, M. D., LL. D., *Professor of Medicine.*

M. B., University of Toronto, 1890, and M. D. (Hon.), 1905; LL. D., Queen's University (Ont.), 1908; Assistant Physician, Assistant Resident Pathologist, and Resident Pathologist, the Johns Hopkins Hospital, 1891-1900; Fellow in Pathology, Johns Hopkins University, 1892-94, Associate in Anatomy, 1894-97, Associate Professor of Anatomy, 1897-99, and of Pathology, 1899-1900; Professor and Head of the Department of Anatomy, University of Chicago, 1900-04, and Professor of Medicine (Rush Medical College), 1904-05; *Physician in Chief to the Johns Hopkins Hospital.*

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CHARLES W. LARNED, M. D., *Instructor in Medicine.*

M. D., University of Maryland, 1893; *Assistant Physician, the Johns Hopkins Dispensary.* 1327 Park Av.

HENRY LEE SMITH, M. D., *Instructor in Medicine.*

M. D., University of Maryland, 1894; *Assistant Physician, the Johns Hopkins Dispensary.* 2701 N. Calvert St.

SAMUEL WOLMAN, M. D., *Instructor in Medicine.*

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Assistant Physician, Phipps Dispensary.*
2101 Brookfield Av.

JOHN H. KING, M. D., *Instructor in Pathology.*

A. B., Johns Hopkins University, 1899, and M. D., 1906. 1227 N. Calvert St.

CHARLES A. ROUILLER, PH. D. *Assistant in Chemistry.*

A. B., Leland Stanford, Jr., University, 1903; Ph. D., Johns Hopkins University, 1906; Assistant, Rockefeller Institute, 1906-07.
Howardville.

HARRY S. GREENBAUM, M. D., *Instructor in Medicine.*

A. B., Johns Hopkins University, 1899, and M. D., 1904; *Assistant Physician, the Johns Hopkins Dispensary.*
1614 Eutaw Place.

JOHN M. WEST, M. D., *Assistant in Laryngology and Rhinology.*

A. B., Johns Hopkins University, 1896, and M. D., 1901; *Assistant Laryngologist, the Johns Hopkins Dispensary.*
227 W. Monument St.

ELIOT R. CLARK, M. D., *Instructor in Anatomy.* 2025 N. Calvert St.

A. B., Yale University, 1903; M. D., Johns Hopkins University, 1907.

ALEXIUS MADOR FORSTER, M. D., *Assistant in Medicine.* Towson.

A. B., University of Louisville, 1900, and M. D., 1904; Resident Physician, Maryland Hospital for Consumptives; *Assistant Physician, Phipps Dispensary.*

LEONARD GEORGE ROWNTREE, M. D., *Instructor in Experimental Therapeutics.* 227 W. Monument St.

M. D., Western University (Canada), 1905.

ARTHUR H. KOELKER, PH. D., *Instructor in Physiological Chemistry.*

Ph. D., University of Berlin, 1903. 227 W. Monument St.

ROBERT BRUCE ROULSTON, PH. D., *Instructor in German.*

A. B., Johns Hopkins University, 1900, Fellow 1902-03, and Ph. D., 1906.
1502 Madison Av.

PAUL W. CLOUGH, M. D., *Assistant in Medicine.*

S. B., University of Wisconsin, 1903; M. D., Johns Hopkins University, 1907; *Assistant Resident Physician, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

HERBERT M. EVANS, M. D., *Instructor in Anatomy.*

S. B., University of California, 1904; M. D., Johns Hopkins University, 1908.
1306 N. Luzerne St.

RHOADES FAYERWEATHER, M. D., *Assistant in Orthopedic Surgery.*

A. B., Harvard University, 1899; M. D., Johns Hopkins University, 1903; *Assistant Surgeon, the Johns Hopkins Dispensary.* 4 E. Madison St.

RALPH V. D. MAGOFFIN, PH. D., *Instructor in Greek and Roman History.* 1012 Madison Av.

A. B., University of Michigan, 1902; Fellow, American School of Classical Studies, Rome, 1906-07; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908.

FRANK J. SLADEN, M. D., *Assistant in Medicine.* [Absent on leave.]

A. B., Yale University, 1902; M. D., Johns Hopkins University, 1906; *Assistant Resident Physician, the Johns Hopkins Hospital.*

WILLIAM W. HOLLAND, PH. D., *Assistant in Chemistry.*

A. B., Central University (Ky.), 1906; Ph. D., Johns Hopkins University, 1907. 1122 Madison Av.

CLYDE GRAEME GUTHRIE, M. D., *Assistant in Medicine.*

A. B., Lafayette College, 1903; M. D., Johns Hopkins University, 1907; *Assistant Resident Physician, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

GLADYS ROWENA HENRY, M. D., *Assistant in Medicine.*

S. B., University of Nebraska, 1900; M. D., Johns Hopkins University, 1907; *Assistant Resident Physician, the Johns Hopkins Hospital.* [Absent on leave.]

MILTON C. WINTERNITZ, M. D., *Instructor in Pathology.*

A. B., Johns Hopkins University, 1903, M. D., 1907, and Fellow in Pathology, 1907-08; *Assistant Resident Pathologist, the Johns Hopkins Hospital.* The Johns Hopkins Hospital

WILLIAM L. MOSS, M. D., *Instructor in Medicine.*

S. B., University of Georgia, 1901; M. D., Johns Hopkins University, 1905; in charge of the laboratory of the Phipps Dispensary. The Johns Hopkins Hospital.

WALTER S. THOMAS, M. D., *Assistant in Surgical Pathology.*

M. D., University of Texas, 1906; Fellow in Pathology and Assistant in Surgical Pathology, Johns Hopkins University, 1908-09. 702 N. Broadway.

FRANK C. AINLEY, M. D., *Assistant in Obstetrics.*

S. B., Drake University, 1902; M. D., Johns Hopkins University, 1906; *Resident Obstetrician, the Johns Hopkins Hospital.* The Johns Hopkins Hospital.

BERTRAM M. BERNHEIM, M. D., *Assistant in Surgery.*

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Assistant Surgeon, the Johns Hopkins Dispensary.* 2319 Linden Av.

CHARLES M. BYRNES, M. D., *Instructor in Neurology.*

S. B., University of North Carolina, 1902; M. D., Johns Hopkins University, 1906; Adjunct Professor of Anatomy, University of Virginia, 1908-09; *Assistant Neurologist, the Johns Hopkins Dispensary.* 805 Hamilton Terrace.

JOHN W. CHURCHMAN, M. D., *Instructor in Surgery.*

A. B., Princeton University, 1898, and A. M., 1901; M. D., Johns Hopkins University, 1902; *Resident Surgeon, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

J. STAIGE DAVIS, M. D., *Instructor in Surgery.*

Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Assistant Surgeon, the Johns Hopkins Dispensary.* 1228 N. Calvert St.

FRANKLIN EDGERTON, PH. D., *Assistant in Sanskrit.*

A. B., Cornell University, 1905; Fellow, Johns Hopkins University, 1907-09, and Ph. D., 1909. 227 W. Monument St.

CHARLES R. ESSICK, M. D., *Assistant in Anatomy.*

A. B., Yale University, 1905; M. D., Johns Hopkins University, 1909.
1731 N. Broadway.

WILLIAM A. FISHER, M. D., *Instructor in Surgery.* 715 Park Av.

A. B., Princeton University, 1896; M. D., Johns Hopkins University, 1900; *Assistant Surgeon, the Johns Hopkins Dispensary.*

WILLIAM D. FURRY, PH. D., *Instructor in Philosophy.*

A. B., University of Notre Dame, 1900, and A. M., 1904; Fellow, Johns Hopkins University, 1906-07, Ph. D., 1907, and Henry E. Johnston Jr. Scholar, 1907-09.
1225 W. Lafayette Av.

WILLIS D. GATCH, M. D., *Assistant in Surgery.*

A. B., Indiana University, 1901; M. D., Johns Hopkins University, 1907; *Assistant Resident Surgeon and Anaesthetist, the Johns Hopkins Hospital.*
The Johns Hopkins Hospital.

EMIL GOETSCH, M. D., *Assistant in Surgery.* 1537 N. Broadway.

S. B., University of Chicago, 1903, and Ph. D., 1906; M. D., Johns Hopkins University, 1909.

EUGENE J. LEOPOLD, M. D., *Assistant in Medicine.* 803 Park Av.

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Assistant Physician, the Phipps Dispensary.*

DAVID I. MACHT, M. D., *Assistant in Medicine.* 1511 Madison Av.

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Externe, Phipps Dispensary.*

CHARLES AUGUSTUS MYERS, A. B., *Instructor in English.*

A. B., Johns Hopkins University, 1902, and Fellow, 1906-08; Instructor in English, University of Missouri, 1908-09. 1421 W. Franklin St.

OMAR B. PANCOAST, M. D., *Instructor in Surgery.*

S. B., Swarthmore College, 1893; M. D., Johns Hopkins University, 1897; *Assistant Surgeon, the Johns Hopkins Dispensary.* 1500 Madison Av.

EDWARD H. RICHARDSON, M. D., *Instructor in Gynecology.*

A. B., Hampden-Sidney College, 1900; M. D., Johns Hopkins University, 1900, 1901-1905; *Resident Gynecologist, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

EDGAR A. SLAGLE, PH. D., *Assistant in Medicine, in charge of the Chemical Laboratory of the Medical Clinic.*

Ph. B., Franklin and Marshall College, 1904; Ph. D., Johns Hopkins University, 1909. 227 W. Monument St.

THOMAS P. SPRUNT, M. D., *Assistant in Pathology.*

A. B., Davidson College, 1903; M. D., Johns Hopkins University, 1909. 510 N. Broadway.

WILLIAM WALKER STRONG, PH. D., *Assistant in Chemistry.*

S. B., Dickinson College, 1905; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908. 1741 McCulloh St.

CHARLES H. STUBENRAUCH, M. D., *Assistant in Medicine.*

A. B., Johns Hopkins University, 1903, and M. D., 1907. 2027 McCulloh St.

HARLAN H. YORK, SC. B., *Assistant in Botany.* 869 Harlem Av.

Sc. B., De Pauw University, 1903; A. M., Ohio State University, 1905; Fellow, Columbia University, 1905-06; Instructor, University of Texas, 1906-09.

GEORGE S. BOND, M. D., *Voluntary Assistant in Medicine.*

A. B., University of Michigan, 1905, and M. D., 1908. 1017 N. Broadway.

WILLIAM L. HOLMAN, M. D., *Voluntary Assistant in Bacteriology.*

A. B., McGill University, 1903, and M. D., 1907. 807 St. Paul St.

ALEXIUS MCGLANNAN, M. D., *Voluntary Assistant in Surgery.*

M. D., College of Physicians and Surgeons (Balt.), 1895. 2005 Madison Av.

LECTURERS DURING THE YEAR, 1909-10

English Constitutional History

GEORGE WALTER PROTHERO, LITT. D., of London, England.

Four public lectures on *Great Britain and her Colonies*, 1603-1776. [James Schouler Foundation.]

Recent French History

H. A. L. FISHER, M. A., Fellow and Tutor of New College, Oxford.

Two public lectures. [Herbert B. Adams Foundation.]

Mediaeval Architecture

M. CAMILLE ENLART, Director of the Museum of Comparative Sculpture of the Trocadero, University Lecturer of the Alliance Française.

One public lecture on *Colonial Architecture and Colonisation of the Middle Ages.*

German Song and Music

Professor MAX FRIEDLÄNDER, PH. D., of the University of Berlin.

Three public lectures.

History of Religions

Professor MORRIS JASTROW, JR., PH. D., of the University of Pennsylvania.

Six public lectures on the *Religion of Babylonia and Assyria.*

An Early Christian Psalter

J. RENDEL HARRIS, M. A., LITT. D., Director of Studies in the Woodbrooke Social Settlement, Birmingham, England.

One public lecture.

Ancient History

Professor EDUARD MEYER, PH. D., of the University of Berlin.

Two public lectures on (1) *Egypt at the Time of the Pyramid Builders*, (2) *Augustus.*

Professor JAMES S. REID, LITT. D., LL. D., of the University of Cambridge.

One public lecture on *The Roman "Colonia."*

Before the following Departments of Instruction

Geology

Professor CLEVELAND ABBE, PH. D., LL. D., of the U. S. Weather Bureau.

Meteorology.

LOUIS A. BAUER, PH. D., Director of the Department of Terrestrial Magnetism, Carnegie Institution.

Terrestrial Magnetism.

Greek

ARISTOGEITON M. SOHO, PH. D., of Baltimore.
Modern Greek.

Historical, Economic, and Political Science

Professor HIRAM BINGHAM, PH. D., of Yale University.
American Diplomatic History. [Albert Shaw Lectureship.]

JAMES BONAR, LL. D., Deputy Master of the Canadian Branch of the Royal Mint.
Justice and Distribution.

JOHN M. GLENN, A. M., LL. D., of New York.
Problems of Relief.

Baron SERGE KORFF, Professor of Public Law in the University of Finland.
Modern Russian History and Law. [Herbert B. Adams Foundation.]

LOGAN G. MCPHERSON, Esq., of New York.
Railway Transportation.

JAMES BROWN SCOTT, J. U. D., Solicitor for the Dept. of State, Washington.
International Law.

Medicine

CH. WARDELL STILES, PH. D., Zoologist of the U. S. Bureau of Public Health.
Medical Zoology.

Philosophy and Psychology

Professor JOHN DEWEY, PH. D., of Columbia University.
Aspects of the Pragmatic Movement of Modern Philosophy.

Professor JAMES H. TUFTS, PH. D., of the University of Chicago.
Present Problems in Metaphysics and the Theory of Knowledge.

Romance Languages

Professor C. M. JOSEPH BÉDIER, of the Collegé de France, University Lecturer of the Alliance Française.
Epic Legends of Old France.

Professor E. GIROUD, of Girard College, Philadelphia.
Molière. [Alliance Française Lecturer.]

Professor FREDERICK M. WARREN, PH. D., of Yale University.
Old-French Literature.

Zoology

Professor CHARLES B. DAVENPORT, of the Carnegie Institution, Washington.

Heredity.

Professor ROSS G. HARRISON, PH. D., of Yale University.

Development of the Nervous System.

Professor WILLIAM E. KELLICOTT, PH. D., of the Woman's College of Balt.

Growth and Correlation.

Professor THOMAS H. MORGAN, PH. D., of Columbia University.

Heredity in Relation to the Soma Cells.

HOLDERS OF THE JOHNSTON SCHOLARSHIPS

WALTER FAIRLEIGH DODD, PH. D., *Henry E. Johnston Scholar.*

S. B., John B. Stetson University, 1901; Fellow, University of Chicago, 1902-04, and Ph. D., 1905. *Political Science.* Central Y. M. C. A. Bldg.

ROBERT LEE RAMSAY, PH. D., *James Buchanan Johnston Scholar.*

A. B., Fredericksburg College, 1899; Fellow, Johns Hopkins University, 1904-05, Ph. D., 1905, and Assistant in English, 1905-07; Instructor, University of Missouri, 1907-09. *English.* Denmore Park.

EBENEZER EMMET REID, PH. D., *Henry E. Johnston Jr. Scholar.*

A. M., Richmond College, 1894; Fellow, Johns Hopkins University, 1897-98, and Ph. D., 1898; Professor of Chemistry, Charleston College, 1898-01, and Baylor University, 1901-08. *Chemistry.* 257 W. Hoffman St.

GRADUATE STUDENTS

Fellows by Courtesy

Herbert Thompson Archibald. Los Angeles, Cal. 1750 *Park Av.*

A. B., Dalhousie University, 1897; Fellow, Johns Hopkins University, 1900-01, and Ph. D., 1901; Professor of Greek, Occidental College, Cal. *Greek.*

Clara Latimer Bacon. Baltimore. 2316 *N. Calvert St.*

A. B., Wellesley College, 1890; A. M., University of Chicago, 1904; Associate Professor of Mathematics, Goucher College. *Mathematics and Philosophy.*

Lulu Mary Bailey. San Angelo, Tex. 902 *St. Paul St.*

S. B., University of Texas, 1899, M. S., 1901, and Instructor in Physics. *Physics, Electricity, and Physical Chemistry.*

Charles Edward Brooks. Baltimore. *Embla Park.*

A. B., Johns Hopkins University, 1900, and Ph. D., 1904. *Mathematics.*

James Ryals Conner. Cartersville, Ga. 1627 *McCulloh St.*

A. B., University of Georgia, 1898; Fellow, Johns Hopkins University, 1907-09, and Ph. D., 1909. *Mathematics.*

Preston Hampton Edwards. Darlington, S. C. 249 *W. Hoffman.*

A. B. and A. M., University of Virginia, 1900; Fellow, Johns Hopkins University, 1908-09, and Ph. D., 1910. *Physics, Applied Electricity, and Mathematics.*

William Sherwood Fox. Brandon, Manitoba.

A. B., McMaster University, 1900, and A. M., 1906; Professor of Greek and Latin, Brandon College. *Classical Archaeology, Greek, and Latin.*
1102 *W. Lafayette Av.*

Julia Anna Gardner. Chamberlain, S. D. 821 *N. Charles St.*

A. B., Bryn Mawr College, 1905, and A. M., 1907; Fellow, Johns Hopkins University, 1908-09. *Paleontology, Petrography, and Biology.*

Henry Hallock Hosford. Crete, Neb. 1318 *Bolton St.*

A. B., Western Reserve University, 1880, and A. M., 1883; Professor of Chemistry, Doane College. *Chemistry, Physical Chemistry, and Physics.*

Andrew Hoffman Krug. Baltimore. 838 *E. Preston St.*

A. B., St. John's College, 1901; Fellow, Johns Hopkins University, 1908. *English, French, and Philosophy.*

Roland Neal. Mitchell, S. D. 2025 *W. North Av.*

A. B., Cornell College, 1904, and A. M., 1907. *Chemistry.*

Louis Alexander Parsons. Gettysburg, Pa.

A. B., Iowa State University, 1895; Fellow, Johns Hopkins University, 1900-02, and Ph. D., 1902; Professor of Physics, Pennsylvania College. *Physics.*

Benjamin Bernard Turner. Baltimore. 401 *E. Twenty-second St.*

B. Sc., University of London, 1894; Ph. D., University of Göttingen, 1899. *Chemistry.*

AUGUSTUS PRICE WEST. Baltimore. 224 *W. Monument St.*

A. B., Johns Hopkins University, 1901, and Ph. D., 1905. *Chemistry.*

CHARLES BRANCH WILSON. Westfield, Mass. 216 *W. Lanvale St.*

A. B., Colby College, 1881, A. M., 1883, and Sc. D., 1908; Professor of Biology, Mass. State Normal School. *Zoology, Physiology, and Botany.*

EMANUEL GEORGE ZIES. Baltimore. *Athol Terrace.*

A. B., Johns Hopkins University, 1906, Fellow, 1908-09, and Ph. D., 1909. *Chemistry.*

(16)

ADAM T. BRUCE FELLOWS IN BIOLOGY

GEORGE T. HARGITT. Syracuse, N. Y. 1211 *Madison Av.*

Ph. B., Syracuse University, 1902; Fellow, University of Nebraska, 1902-03, and A. M., 1903; Austin Teaching Fellow, Harvard University, 1907-09, and Ph. D., 1909. *Zoology.*

WILLIAM DANA HOYT. Baltimore. [Absent on leave.]

A. B., University of Georgia, 1901, and M. D., 1904; Fellow, Johns Hopkins University, 1908-09, and Ph. D., 1909. *Botany.*

WILLIAM S. RAYNER FELLOW IN SEMITIC LANGUAGES

AARON EMBER. Baltimore. 1403 *McCulloh St.*

A. B., Johns Hopkins University, 1901, Fellow, 1903-04, Ph. D., 1904, and Associate in Semitic Languages.

UNIVERSITY FELLOWS

DAVID SIMON BLONDHEIM. Baltimore. 714 *Newington Av.*

A. B., Johns Hopkins University, 1906. *French, Spanish, and Latin.*

GEORGE WILLIAM BROWN. Baltimore. 1125 *Harlem Av.*

A. B., Hiram College, 1897. *Sanskrit, Hebrew, and Arabic.*

WILLIAM HENRY BROWN. Richmond, Va. 306 *W. Lanvale St.*

S. B., Richmond College, 1906. *Botany, Zoology, and Physiology.*

WILLIAM MANSFIELD CLARK. Salisbury, Conn. 261 *W. Hoffman St.*

A. B., Williams College, 1907. *Chemistry, Physical Chemistry, and Physics.*

BENJAMIN HARRISON GRAVE. Richmond, Ind. 605 *Lennox St.*

S. B., Earlham College, 1903; M. S., Carleton College, 1906. *Zoology, Botany, and Physiology.*

FRANCIS JOSEPH HEMELT. Baltimore. 403 *S. Washington St.*

A. B., Loyola College, 1906. *English, French, and Germanic Philology.*

ERNEST LESLIE HIGHBARGER. Rockford, Ill. 1719 *McCulloh St.*

A. B., Mt. Morris College, 1908. *Greek.*

THOMAS ALBERT LEWIS. Dawn, Mo. 261 *W. Hoffman St.*

A. B., William Jewell College, 1905. *Philosophy, Experimental Psychology, and Biology.*

HOMER PAYSON LITTLE. Dalton, Mass. 1203 *Madison Av.*

A. B., Williams College, 1906. *Geology, Mineralogy, and Physical Chemistry.*

EMMA LONGFELLOW. Machias, Me.

A. B., Mt. Holyoke College, 1904. *Physiology.* [*Resigned without entering on the fellowship.*]

FRANCIS WELD PEABODY. Boston, Mass. 807 *St. Paul St.*

A. B., Harvard University, 1903, and M. D., 1907. *Pathology.*

HARRY HESS REICHARD. Hellertown, Pa. 2004 *Mt. Royal Terr.*

A. B., Lafayette College, 1901. *German.*

JOSEPH EUGENE ROWE. Emmitsburg, Md. 1400 *McCulloh St.*

A. B., Pennsylvania College, 1904. *Mathematics, Physics, and Astronomy.*

GEORGE VICTOR SCHICK. Fort Wayne, Ind. 757 *W. Fayette St.*

Concordia College, 1904; Concordia Seminary (St. Louis), 1907. *Hebrew, Assyrian, and Greek.*

KARL SINGEWALD. Baltimore. 318 *S. Broadway.*

A. B., Johns Hopkins University, 1907. *Political Science, Law, and History.*

CARROLL MASON SPARROW. Baltimore. 902 *St. Paul St.*

A. B., Johns Hopkins University, 1908. *Physics, Mathematics, and Astronomy.*

FRANK TENNEY STOCKTON. Meadville, Pa. 2915 *W. North Av.*

A. B., Allegheny College, 1907. *Political Economy, Political Science, and History.*

EDWARD RAYMOND TURNER. Baltimore. 1728 *N. Charles St.*

A. B., St. John's College, 1904. *History, Political Economy, and Philosophy.*

ANTHONY PELZER WAGENER. Charleston, S. C. 1210 *McCulloh St.*

A. B., College of Charleston, 1906. *Latin, Greek and Sanskrit.*

GEORGE FREDERIC WHITE. Franklin Park, Mass.

S. B., Massachusetts Institute of Technology, 1906. *Chemistry, Physical Chemistry and Biology.* 315 *W. Hoffman St.*

Other Graduate Students in Philosophy

Paul Gough Agnew. Washington, D. C.
B. L., Hillsdale College, 1901; A. M., University of Michigan, 1902. *Physics, Applied Electricity, and Mathematics.*

Annie Idoline Anthony. Lynch Station, Va. 1407 *John St.*
A. B., Randolph-Macon Woman's College, 1901, and A. M., 1902. *Physics, Mathematics, and Astronomy.*

Thomas Bryce Ashcraft. Marshville, N. C. 1429 *McCulloh St.*
A. B., Wake Forest College, 1906. *Mathematics, Physics, and Astronomy.*

Herbert Douglas Austin. Erie, Pa. 2430 *Maryland Av.*
A. B., Princeton University, 1900, and A. M., 1901. *French, Italian, and Spanish.*

Samuel Warren Ayres. Knoxville, Tenn. 261 *W. Hoffman St.*
A. B., University of Tennessee, 1906, and A. M., 1908. *Latin, Greek, and Sanskrit.*

Frederick Harvey Blodgett. Washington, D. C.
S. B., Rutgers College, 1897, and M. S., 1899; Ph. D., Johns Hopkins University, 1910. *Botany, Zoology, and Geology.*
3741 *Park Heights Av.*

Ned Faucette Brannock. Mebane, N. C. 865 *Harlem Av.*
A. B., Elon College, 1899, and A. M., 1908. *Mathematics, Physics, and Astronomy.*

Oscar Ellis Bransky. Baltimore. 2049 *Wilkens Av.*
A. B., Johns Hopkins University, 1907. *Chemistry, Physical Chemistry, and Geology.*

Frank Gottlob Breyer. Baltimore. *Mt. Washington.*
A. B., Johns Hopkins University, 1908. *Chemistry and Physical Chemistry.*

Thomas Ross Brown. Frankfort, Ind.
A. B., University of Michigan, 1902. *Bacteriology, Physiological Chemistry, and Pathology.*

John Lattimore Carpenter. Brooksville, Miss. 1719 *McCulloh St.*
S. B., Mississippi College, 1904, and A. M., 1905. *Chemistry and Physical Chemistry.*

Joseph Chandler. Livermore Falls, Me. 1124 *McCulloh St.*
A. B., Colby College, 1909. *Chemistry and Physical Chemistry.*

Edwin Thomas Cheetham. Baltimore. 737 *W. Lexington St.*
A. B., Wooster University, 1897. *Political Economy, Political Science, and History.*

Walter Fieldhouse Clarke. Danville, Va. 1221 *Madison Av.*
A. B., Hampden-Sidney College, 1903. *Chemistry and Physical Chemistry.*

CHARLES WYTHE COOKE. Front Royal, Va. 1309 *John St.*

A. B., Johns Hopkins University, 1908. *Geology.*

PAUL BELL DAVIS. Salem, Va. 909 *McCulloh St.*

A. B., Roanoke College, 1908, and A. M., 1909. *Chemistry, Physical Chemistry, and Mineralogy.*

FELTON SAMUEL DENGLER. Steelton, Pa. 1504 *McCulloh St.*

S. B., Pennsylvania College, 1909. *Chemistry, Physical Chemistry, and Physics.*

ALBERT GOUCHER DEW. Baltimore. 2820 *N. Calvert St.*

A. B., Johns Hopkins University, 1902, and Fellow, 1908-09. *Education, Genetic Logic, and Political Science.*

THOMAS WYATT DICKSON. Raeford, N. C. 515 *W. Mulberry St.*

A. B., University of North Carolina, 1907, and A. M., 1909. *Greek.*

ERNEST POHL DOETSCH. Baltimore. 733 *W. Lombard St.*

A. B., Johns Hopkins University, 1907. *Chemistry, Physical Chemistry, and Geology.*

WILLIAM LEE DOLLY, JR. Fredericksburg, Va. 1115 *Linden Av.*

A. B., Randolph-Macon College, 1907, and A. M., 1908. *Zoology, Botany, and Physiology.*

ALBERT CASSELL DUDLEY. Baltimore County. *Relay.*

Princeton Theological Seminary, 1907. *History.*

ARTHUR HOWARD ESTABROOK. Leicester, Mass. *Central Y. M. C. A.*

A. B., Clark University, 1905, and A. M., 1906. *Zoology, Botany, and Physiology.*

HENRY OTTO EYSSELL. Kansas City, Mo. 1125 *McCulloh St.*

A. B., University of Missouri, 1908. *Chemistry and Physical Chemistry.*

PERCIVAL BRADSHAW FAY. Washington, D. C. 16 *W. Hamilton St.*

A. B., Haverford College, 1909. *French, Spanish, and Italian.*

CHARLES GHEQUIERE FENWICK. Baltimore. 118 *W. Lanvale St.*

A. B., Loyola College, 1908, and A. M., 1909; Woodstock College, 1900-03. *Political Science, History, and Philosophy.*

JOEL RUSSELL GAAR. Baltimore. 3204 *E. Baltimore St.*

A. B., Westminster College (Texas), 1901; B. D., Westminster Theological Seminary (Md.), 1904. *Philosophy, Psychology, and Biology.*

ROGERS HARRISON GALT, JR. Norfolk, Va. 918 *N. Calvert St.*

A. B., Johns Hopkins University, 1907. *Physics, Applied Electricity, and Mathematics.*

ROBERT SPIER GARNETT. Baltimore. 629 *Gorsuch Av.*

A. B., Richmond College, 1898; Rochester Theological Seminary, 1903. *History, Political Economy, and Philosophy.*

JOHN PAUL GIVLER. Baltimore. 1500 *John St.*

Ph. B., Hamline University, 1906. *Zoology, Botany, and Geology.*

WILLIAM STUART GORTON. Baltimore. 2403 *Garrison Av.*

A. B., Johns Hopkins University, 1908. *Physics, Applied Electricity, and Mathematics.*

CLARENCE PEMBROKE GOULD. Baltimore. 508 *E. Twenty-third St.*

A. B., Johns Hopkins University, 1907. *History.*

GEORGE MITCHELL GRIFFITH. Baltimore. 603 *Reservoir St.*

A. B., Johns Hopkins University, 1906. *Political Science and French.*

GUSTAV GRÜNBAUM. Bucarest, Roumania. 2028 *McCulloh St.*

University of Bucarest. *Romance Languages.*

J. SAM GUY. Fredericksburg, Va. 321 *W. Hoffman St.*

S. B., Davidson College, 1905, and A. M., 1906. *Chemistry, Physical Chemistry, and Mineralogy.*

JULIA PEACHY HARRISON. Richmond, Va. 1215 *John St.*

A. B., Richmond College, 1906, A. M., 1907, and S. B., 1909. *Chemistry and Physical Chemistry.*

FRANK ALFRED HERALD. Cleo., Okla. 1405 *McCulloh St.*

University of Oklahoma, 1910. *Geology.*

CLARENCE WILSON HEWLETT. Wilson, N. C. 601 *N. Carrollton Av.*

B. E., North Carolina Agricultural and Mechanical College, 1906. *Physics, Mathematics, and Physical Chemistry.*

JOSEPH ELLIS HODGSON. Stephenson, Va. 1114 *N. Eutaw St.*

A. B., Washington and Lee University, 1898. *Mathematics, Physics, and Philosophy.*

ARTHUR DUNHAM HOLMES. Westminster, Vt. 261 *W. Hoffman St.*

S. B., Dartmouth College, 1906. *Chemistry and Physical Chemistry.*

FRANK GLEN HOLMES. Baltimore. 1629 *W. Mulberry St.*

A. B., Johns Hopkins University, 1908. *History and Philosophy.*

OLIVER BAKER HOPKINS. Penn Laird, Va. 232 *Laurens St.*

A. B., Johns Hopkins University, 1909. *Geology and Physical Chemistry.*

MARIE HOURWICH. Washington, D. C. 918 *Russell St.*

Nijni-Novgorod Gymnasium (Russia), 1905; Rand School of Social Science (New York), 1907-1909. *Political Economy, History, Political Science.*

JOHN FREDERICK HUNTER. Baltimore. *Bay View Asylum.*

A. B., Johns Hopkins University, 1907. *Geology and Physical Chemistry.*

WARREN BELKNAP HUNTING. Baltimore. 34 *W. 25th St.*

A. B., Johns Hopkins University, 1907. *Political Science.*

HARRY MILES JOHNSON. Nelson, Mo. 259 *W. Hoffman St.*

A. B., Missouri Valley College, 1909. *Psychology, Philosophy, and Education.*

WALTER VINCENT JOHNSON. Baltimore. 2015 *St. Paul St.*

A. B., Johns Hopkins University, 1909. *History.*

WILLIAM RALPH JONES. Baltimore. 901 *Harlem Av.*

A. B., Johns Hopkins University, 1906. *Botany.*

CALEB GUYER KELLY. Baltimore. 2010 *Linden Av.*

A. B., Johns Hopkins University, 1908. *History and Philosophy.*

HENRY ROYER KREIDER. Baltimore. 310 *W. Hoffman St.*

A. B. and A. M., Franklin and Marshall College, 1898. *Chemistry, Physical Chemistry, and Mineralogy.*

JOHN B. LALIME, S. J. Montreal, Can. *Loyola College.*

A. B., Laval University, 1900. *Physics, Physical Chemistry, Electricity.*

THOMAS ROBERT LE COMPTE. Cambridge. 1109 *Madison Av.*

A. B., Western Maryland College, 1907. *Chemistry.*

NATHANIEL EDWARD LOOMIS. Randolph, Wis. 261 *W. Hoffman St.*

S. B., Beloit College, 1908; M. S., Syracuse University, 1909. *Chemistry, Physical Chemistry, and Physics.*

ELLA THOMPSON LOVE. Lonaconing. 1405 *McCulloh St.*

A. B., Western Maryland College, 1904. *History, Political Science, and Philosophy.*

SYLVESTER KLINE LOY. Virginsville, Pa. 261 *W. Hoffman St.*

A. B., Franklin and Marshall College, 1905. *Chemistry, Physical Chemistry, and Mineralogy.*

DONALD MACKENZIE. Weatherford, Texas. 804 *N. Calvert St.*

A. B., Johns Hopkins University, 1908. *Physics.*

FRANK ABBOTT MAGRUDER. Woodstock, Va. 321 *W. Hoffman St.*

A. B., Washington and Lee University, 1905. *Political Science, Political Economy, and History.*

ELI KENNERLY MARSHALL, JR. Charleston, S. C.

S. B., College of Charleston, 1908. *Chemistry, Physical Chemistry, and Physics.* 1210 *McCulloh St.*

JOSEPH LLEWELLYN MCGHEE. Emory, Va. 417 *Laurens St.*

A. B., Hiwassee College, 1893; A. B., Emory and Henry College, 1903. *Chemistry and Physical Chemistry.*

JOHN BEAVER MEETIE, JR. Raton, N. Mex. 2841 *Rayner Av.*

A. B., Johns Hopkins University, 1908. *Geology and Physical Chemistry.*

CHARLES FERDINAND MEYER. Baltimore.

A. B., Johns Hopkins University, 1906. *Physics, Physical Chemistry, and Mathematics.* 211 *Goodwood Gardens, Roland Pk.*

BESSIE IRVING MILLER. Baltimore. 108 *E. North Av.*

A. B., Woman's College of Baltimore, 1907. *Mathematics and Classical Archaeology.*

WILLIAM RAYMOND MOODY. Chestertown.

A. B., Washington College, 1909. *Political Economy and History.*

ALFRED BALCH MORTON. Baltimore County. *Roland Park.*

A. B., Haverford College, 1907. *Political Economy, Political Science, and History.*

THOMAS ADDIS EMMET MOSELEY. Baltimore. 614 *N. Howard St.*

A. B., Johns Hopkins University, 1907. *Romance Languages.*

CHESTER NEWTON MYERS. Valley Falls, N. Y. 1203 *Madison Av.*

A. B., Williams College, 1906. *Chemistry, Physical Chemistry, and Physics.*

PATRICK JOSEPH NICHOLSON. North Sydney, Nova Scotia.

A. B., St. Francis Xavier's College (N. S.), 1909. *Physics and Mathematics.* 1209 *Guilford Av.*

LUTHER WOOD PARKER. Elizabeth City, N. C. 261 *W. Hoffman St.*

A. B., University of North Carolina, 1907, and A. M., 1908. *French, Italian, and Spanish.*

WILLIAM EDWARD PEARCE, JR. Baltimore. 1065 *Myrtle Av.*

A. B., Johns Hopkins University, 1909. *Latin.*

PETER PECK. Baltimore. 1714 *McCulloh St.*

A. B., Johns Hopkins University, 1908. *Political Science and Economics.*

JULIUS JOSEPH PRICE. Worcester, Mass. 671 *W. Lexington St.*

A. B., University of Pennsylvania, 1908. *Semitic Languages.*

WILLIAM ARMSTRONG PRICE, JR. Richmond, Va. 1105 *Bolton St.*

A. B., Davidson College, 1909. *Geology, Mineralogy, and Chemistry.*

ELIAS N. RABINOWITZ. Philadelphia, Pa.

A. B., Haverford College, 1903; Jewish Theological Seminary (N. Y.). *Hebrew, Arabic, and Education.*

FRIDA MARIE RAYNAL. Washington, D. C. 2420 *Callow Av.*

A. B., Wellesley College, 1897. *German.*

WILLIAM ANDREW AUGUST REINHARDT. Baltimore. 1337 *Hull St.*

A. B., Johns Hopkins University, 1907. *Chemistry and Physical Chemistry.*

HILARY GOODE RICHARDSON. Baltimore.

A. B., Hampden-Sidney College, 1894; Union Theological Seminary (Va.), 1898. *Semitic Languages.* *Howard and Monument Sts.*

LAWRENCE MELVILLE RIDDLE. Baltimore Co.

A. B., Johns Hopkins University, 1908. *French.*

Evesham Av., Govans.

HENRY CLARENCE ROBERTSON, JR. Spartanburg, S. C.

A. B., Wofford College, 1905, and A. M., 1906. *Chemistry, Physical Chemistry, and Biology.* 1204 *Bolton St.*

LEWIS BAYARD ROBINSON, JR. Baltimore. 306 *E. Twenty-second St.*

A. B., Johns Hopkins University, 1906. *Mathematics, Political Economy, and Astronomy.*

THOMAS GLADSTONE RODGERS. Roswell, N. Mex. 402 *St. Paul St.*

S. B., Valparaiso University (Ind.), 1892; A. B., University of Tennessee, 1900. *Mathematics.*

JOHN HENDERSON RUSSELL. Jonesville, Va. 1214 *Madison Av.*

A. B., Emory and Henry College, 1907. *History, Political Science, and History of Philosophy.*

PHILIP SCHNEEBERGER. Baltimore. 2014 *McCulloh St.*

A. B., Johns Hopkins University, 1909. *Chemistry and Physical Chemistry.*

GEORGE HENRY SCHWARTZ. Baltimore. 520 *N. Fulton Av.*

A. B., Johns Hopkins University, 1908. *German.*

LESTER WHYLAND SHARP. Alma, Mich. 701 *N. Calvert St.*

S. B., Alma College, 1908. *Botany and Geology.*

JAMES HOUSTON SHRADER. Washington, D. C. 1119 *McCulloh St.*

A. B., George Washington University, 1909. *Chemistry, Physical Chemistry, and Physics.*

HORATIO ELWIN SMITH. Brattleboro, Vt.

A. B., Amherst College, 1908. *French, Spanish, and Italian.*

116 *Ridgewood Rd., Roland Park.*

WILLIAM EUGENE SPEAS. East Bend, N. C. 1429 *McCulloh St.*

A. B., Wake Forest College, 1907. *Physics and Mathematics.*

ALFRED SPRINGER, JR. Norwood, O. 1109 *Madison Av.*

A. B., Yale University, 1909. *Chemistry and Physical Chemistry.*

GUY MARKLEY STOCK. Baltimore. 3610 *Clifton Av.*

S. B., Pennsylvania College, 1908. *Chemistry, Physical Chemistry, and Mineralogy.*

JOSHUA IRVING TRACEY. Upperco. 1741 *McCulloh St.*

S. B., Dickinson College, 1906. *Mathematics and Physics.*

LLOYD VAN DOREN. New Germantown, N. J. 1504 *McCulloh St.*

S. B., Pennsylvania College, 1909. *Chemistry, Physical Chemistry, and Physics.*

JOSEPH WALKER WALLINGFORD. Mt. Carmel, Ky.

S. B., Central University (Ky.), 1908. *Chemistry.*

JOHN NOTTINGHAM WARE. Culpeper, Va. 1124 *McCulloh St.*

A. B. and A. M., Randolph-Macon College, 1901. *French, Spanish, and Italian.*

EDWIN WARFIELD, JR. Howard County. *Woodbine.*

A. B., St. John's College, 1909. *Political Science and Political Economy.*

GEORGE ROSS MAURICE WELLS. Baltimore County. *Towson.*

A. B., McMaster University, 1906; Newton Theological Institute, 1906-08; A. M., Harvard University, 1909. *Psychology and Philosophy.*

LAWRENCE RICHARDSON WHARTON. Hiram, O. 261 *W. Hoffman St.*

Ph. B., Hiram College, 1907. *Chemistry.*

EUGENE PINCKNEY WIGHTMAN. Ashland, Va. 261 *W. Hoffman St.*

S. B., Richmond College, 1908. *Chemistry, Physical Chemistry, and Mineralogy.*

HENRY F. WILE. Carlisle, Pa.

A. B., Dickinson College, 1906. *Chemistry.*

RICHARD CLAGGETT WILLIAMS. Baltimore. 204 *E. Preston St.*

A. B., Princeton University, 1900. *Geology, Mineralogy, and Physical Chemistry.*

SMITH JOHNS WILLIAMS. Iraville, Va. 1115 *Linden Av.*

A. B., William and Mary College, 1908. *English, History and German.*

ROY MARTIN WINGER. McCune, Kans. 1318 *Bolton St.*

A. B., Baker University, 1906. *Mathematics, Astronomy, and Sanskrit.*

LULA GAINES WINSTON. Richmond, Va. 257 *W. Hoffman St.*

S. B., Richmond College, 1899. *Chemistry, Physical Chemistry and Physics.*

GEORGE ELLAS WISEWELL. Phelps, N. Y. 1608 *Ruskin Av.*

Ph. B., Hamilton College, 1904. *Romance Languages.*

FRENCH EUGENE WOLFE. Dryden, Va. 1214 *Madison Av.*

A. B., Emory and Henry College, 1907. *Political Economy, Political Science, and History of Philosophy.*

JOSEPH PURDON WRIGHT.. Baltimore. 1700 *Guilford Av.*

A. B., Johns Hopkins University, 1908; LL. B., University of Maryland, 1905. *Political Science, Law, and History of Philosophy.*

MABEL MINERVA YOUNG. Wellesley, Mass. 1102 *McCulloh St.*

A. B., Wellesley College, 1898; A. M., Columbia University, 1899. *Mathematics.*

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ATTENDANTS ON SINGLE COURSES

ARTHUR BARNEVELD BIBBINS. Baltimore. 2313 *N. Charles St.*

Ph. B., Albion College, 1887. *Geology.*

THEORA JULIETTE BUNNELL. Baltimore. 1813 *Linden Av.*

A. B., Woman's College (Balt.), 1904. *Latin.*

HARRY LINGAN CAPLES. Baltimore County. *Cockeysville.*

A. B., Johns Hopkins University, 1908. *Philosophy.*

LOTTA A. CASLER. Little Falls, N. Y. 19 *W. Chase St.*

S. B., Smith College, 1896. *Latin.*

CHURCHILL GIBSON CHAMBERLAYNE. Richmond, Va.

A. B., University of Virginia, 1901; Theological Seminary of Virginia, 1904; Ph. D., University of Halle-Wittenberg, 1906. *History.*
Country School for Boys.

RICHARD BAYLEY CHAPMAN. Baltimore. 2306 *Eutaw Place.*

B. Litt., Princeton University, 1907; Student of Law, University of Maryland. *Political Science.*

SAMUEL CLAGGETT CHEW, JR. Baltimore County. *Roland Pk.*

A. B., Johns Hopkins University, 1909. *English.*

KLARA HECHTENBERG COLLITZ. Baltimore. 135 *W. Mt. Royal Av.*

University of Oxford, 1895; Ph. D., University of Heidelberg. 1900. *Germanics.*

MARY THERESA DALLAM. Baltimore. 1318 *Bolton St.*

University of Chicago and Harvard University (Summer Schools). *English.*

HARRY VAIL DEALE. Baltimore. 2114 *Maryland Av.*

A. B., Johns Hopkins University, 1909. *Philosophy.*

HARRY R. DOUGHERTY. Annapolis. *Annapolis.*

A. B., St. John's College, 1904. *Physics.*

ALICE JOUVEAU DUBREUIL. Baltimore. 2315 *N. Charles St.*

A. B., Cornell University, 1906. *English.*

REV. GEORGE STEWART DUNCAN. Washington, D. C. *Washington.*

A. B., Williams College, 1885; A. M., Princeton University, 1887; B. D., Princeton Theological Seminary, 1888; Ph. D., Dickinson College, 1894. *Semitic Languages.*

DANIEL ELLISON. Baltimore. 1627 *E. Madison St.*

A. B., Johns Hopkins University, 1907; LL. B., University of Maryland, 1909. *Political Science.*

BENJAMIN EDWARD FLEAGLE. Baltimore County. *Colonial Park.*

A. B., Western Maryland College, 1904. *Educational Theory.*

CHARLES FREDERICK GLOTH. Baltimore. 605 *St. Paul St.*

A. B., Yale University, 1897. *French.*

CORNELIA G. HARCUM. Reedville, Va. *Dennure Park.*

A. B., Woman's College of Baltimore, 1907. *Latin and Classical Archaeology.*

MARY BELLE HARRIS. Lewisburg, Pa. 821 *N. Charles St.*

A. B., Bucknell University, 1904, and A. M., 1905; Ph. D., University of Chicago, 1909. *Classical Archaeology.*

MARY EMMA HARWOOD. Rutland, Vt.

A. B., Smith College, 1903; A. M., Columbia University, 1910. *Latin.*

LOY A. HAWKINS. Washington, D. C. *Washington.*

Sc. B., Morningside College (Iowa), 1906. *Botany.*

ROBERT CECIL HOGAN. Baltimore. 902 *St. Paul St.*

LL. B., University of Maryland, 1910. *Political Science.*

KATHARINE LUMMIS. Baltimore. 2306 *N. Calvert St.*

A. B., Lawrence University, 1899, and Stanford University, 1901. *Latin.*

WILLIAM JOHN MCCAUGHEY. Washington, D. C. *Washington.*

S. B., University of Pennsylvania, 1906. *Geology.*

Rev. LUTHER P. MILLER. Baltimore. 2019 *Gough St.*

A. B., Pennsylvania College, 1886; Gettysburg Theological Seminary, 1889. *Psychology.*

Rev. ALBERT OSWALD MULLEN. Baltimore. 207 *E. Lafayette Av.*

A. B., Pennsylvania College, 1891; Gettysburg Theological Seminary, 1894. *Political Economy.*

HERBERT HAYES MURPHY. Baltimore County. *Glyndon.*

A. B., Western Maryland College, 1897, and A. M., 1905. *Educational Theory.*

JAMES STANISLAUS MURPHY. Baltimore.

A. B., Loyola College, 1909; Student of Law, University of Maryland. *Political Science.* *Presstman and 8th Sts., Walbrook.*

WALTER EMIL MYERS. Baltimore. 1421 *W. Franklin St.*

A. B., Johns Hopkins University, 1907. *Romance Languages.*

WILLIAM EUGENE OLIVET. Baltimore. 1129 *Park Av.*

École Cantonale de Lausanne; Instructor, U. S. Naval Academy. *Romance Languages.*

REV. ARTHUR ELMER OWENS. Baltimore County. *Phoenix.*

A. B., Randolph-Macon College, 1908. *Philosophy.*

JAMES HERBERT OWENS. Harford County. *Havre de Grace.*

A. B., Randolph-Macon College, 1904. *Educational Theory.*

REV. HERBERT PARRISH. Baltimore. 222 *N. Carrollton Av.*

A. B., Trinity College (Conn.), 1891, and A. M., 1894; General Theological Seminary (N. Y.), 1894. *History.*

JOHN GILMAN D'ARCY PAUL. Baltimore. *Woodlands, Gorsuch Av.*

A. B., Harvard University, 1908. *Latin.*

SAUL PRAEGER. New York, N. Y.

University of Maryland (Law School). *Political Science.*

GEORGE PITTS RALEIGH. Baltimore. 2212 *Eutaw Place.*

A. B., Johns Hopkins University, 1907; Student of Law, University of Maryland. *Political Science.*

CLYDE CARROLL ROHR. Baltimore. 1309 *N. Gilmor St.*

S. B., Loyola College, 1909. *Political Economy.*

THOMAS DECOURSEY RUTH. Baltimore. *Roland Park.*

A. B., Johns Hopkins University, 1906. *Latin.*

EDWARD HINMAN SIRICH. Baltimore. *Annapolis.*

A. B., Johns Hopkins University, 1906. *Romance Languages.*

GEORGE ALEXANDER STEELE. Baltimore. 1200 *Madison Av.*

A. B., St. John's College, 1884, and A. M., 1887. *Latin.*

H. WIRT STEELE. Baltimore. 1321 *Madison Av.*

University of Indiana. *Political Economy.*

VINCENT LEROY TOOMEY. Washington, D. C. *Washington.*

A. B. and LL. B., Catholic University of America, 1909. *Political Science.*

JOHN LINCK ULRICH. Baltimore. 841 *Hamilton Terr.*

S. B., University of Pennsylvania, 1908, and M. S., 1909. *Psychology.*

DAVID EMRICH WEGLEIN. Baltimore. 1833 *Linden Av.*

A. B., Johns Hopkins University, 1897. *Educational Theory.*

JOHN BOYD WHITE. Annapolis. *Annapolis.*

A. B., Geneva College, 1885, and A. M., 1888. *Sanskrit.*

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GRADUATE STUDENTS IN MEDICINE

CANDIDATES FOR THE DEGREE OF M. D.

Fourth Year

MARY DAYTON ALLEN. Holland Patent, N. Y. 104 *Jackson Pl.*

A. B., Mt. Holyoke College, 1905.

EDWARD MCPHERSON ARMSTRONG. Hagerstown. 510 *N. Broadway.*

A. B., Princeton University, 1904; Rhodes Scholar, University of Oxford, 1905-08, and B. Sc., 1908.

MOSES HAVEN BAKER. Stockwell, Ind. 518 *N. Broadway.*

S. B., Purdue University, 1905.

HENRY GRAY BARBOUR. Hartford, Conn. *Cathedral Apartments.*

A. B., Trinity College (Conn.), 1906.

EMIL BOEHM. St. Louis, Mo. 318 *N. Broadway.*

S. B., St. Louis University, 1906.

WILLIAM SYMINGTON BOLE. Bozeman, Mont. 135 *Jackson Pl.*

S. B., Montana Agricultural College, 1906.

CARL FERDINAND BOOKWALTER. Danville, Ill. 106 *Jackson Pl.*

S. B., Purdue University, 1900.

ETHAN FLAGG BUTLER. Washington, D. C. 110 *Jackson Pl.*

A. B., Princeton University, 1906.

WALTER AUSTIN CALIHAN. Rochester, N. Y. 305 *N. Broadway.*

A. B., University of Rochester, 1906.

ROSS STAGG CARTER. San Diego, Cal. 1601 *N. Broadway.*

A. B., Leland Stanford Jr. University, 1905.

THOMAS RODNEY CHAMBERS. Baltimore. 18 *W. Franklin St.*

A. B., Johns Hopkins University, 1906.

JOSEPH LYNN CHOATE. Los Angeles, Cal. *Central Y. M. C. A.*

A. B., Leland Stanford Jr. University, 1906; A. M., University of Southern California, 1907, and Medical Student, 1906-1908; Cooper Medical College, 1907.

THOMAS PATRICK COAN. Baltimore. 867 *Hollins St.*

A. B., Mt. St. Joseph's College, 1903; M. D., Johns Hopkins University, March, 1910.

CLAUDE CARR CODY, JR. Georgetown, Texas. 1028 *N. Broadway.*

A. B., Southwestern University, 1904, A. M., 1905, and Student of Medicine, 1905-1907.

HENRY THEODORE COLLENBERG. Baltimore. 1810 *E. Baltimore St.*

A. B., Johns Hopkins University, 1906.

HASKETT LYNCH CONNER. New Albany, Ind.

A. B., De Pauw University, 1906.

ERNEST COOPER. Columbia, S. C. 1515 *E. Biddle St.*

A. B., University of South Carolina, 1900; M. D., Johns Hopkins University, January, 1910.

HENRY NICHOLAS COSTELLO. Hartford, Conn. 305 *N. Broadway.*

A. B., Yale University, 1906.

WALTER EDWARD DANDY, Sedalia, Mo. 1029 *N. Broadway.*

A. B., University of Missouri, 1907, and Student of Medicine, 1906-1907.

CLINTON DEMAS DEMING. Hartford, Conn. 125 *Jackson Pl.*

A. B., Yale University, 1907, and Student of Medicine, 1906-1907.

BERNARD SOLOMON DENZER. New York City. 111 *Jackson Pl.*
A. B., Columbia University, 1906.

THOMAS ALAN DEVAN. New Brunswick, N. J. 937 *N. Bdway.*
S. B., Rutgers College, 1906.

BARUCH MORDECAI EDLAVITCH. Baltimore. 1737 *E. Baltimore St.*
A. B., Johns Hopkins University, 1906.

RALPH LANDIS ENGLE. Palmyra, Pa. 527 *N. Wolfe St.*
A. B., Lebanon Valley College, 1905; A. M., Yale University, 1906.

HORACE BURNETT FENTON. Portland, Ore. 1601 *N. Broadway.*
A. B., University of Oregon, 1906.

EDGAR LORRINGTON GILCREEST. Gainesville, Tex.
A. B., University of Texas, 1906. 1834 *E. Monument St.*

HYMAN GINSBERG. De Funiak Springs, Fla. 111 *Jackson Place.*
S. B., University of Georgia, 1906.

LEMUEL WHITTINGTON GORHAM. Albany, N. Y. 518 *N. Broadway.*
A. B., Yale University, 1906.

WILLIAM LAWRENCE GRIMES. Lexington, N. C. 518 *N. Broadway.*
S. B., University of North Carolina, 1906.

CROWELL CLAIRINTON HALL, JR. Dover, Me. 518 *N. Broadway.*
A. B., Bowdoin College, 1906.

RUNKLE FISHER HEGEMAN. New Germant'n, N. J. 510 *N. Bdway.*
A. B., Princeton University, 1906.

HENRY GILDERSLEEVE JARVIS. Gildersleeve, Conn. 1515 *N. Bdway.*
A. B., Yale University, 1906.

ALBERT EUGENE JOHANN. Canton, Mo. 1222 *N. Broadway*
A. B., Christian University, 1906; Graduate Student, University of Chicago, Summer of 1906.

SAMUEL LABAN LEDBETTER, JR. Birmingham, Ala. 1814 *N. Bdway.*
S. B., University of Alabama, 1906.

RALPH HERMAN MAJOR. Liberty, Mo. 1222 *N. Broadway.*
A. B., William Jewell College, 1902; Student, Universities of Leipsic, Munich, and Chicago, 1904-1906.

ALBERT FRANCIS MATTICE. Sedro, Wash. 111 *Jackson Pl.*
S. B., South Dakota Agricultural College, 1904.

SYDNEY ROBOTHAM MILLER. Newark, N. J. 110 *Jackson Place.*
S. B., New York University, 1905.

DANA ELBRA MONROE. Cameron, Tex. 1220 *N. Broadway.*
A. B., University of Texas, 1906.

RAYMOND BARTLETT MORRIS. Olean, N. Y. 116 *Jackson Pl.*
A. B., Yale University, 1907, and Student of Medicine, 1906-1907.

ANGUS WASHBURN MORRISON. Minneapolis, Minn. 518 *N. Bdway.*
A. B., Yale University, 1906.

DOUGLASS HOWELL MORSE. San Francisco, Cal. 518 *N. Broadway.*
S. B., University of California, 1907, and Medical Student, 1906-07.

JAMES CRAIG NEEL. Marietta, O. 1020 *N. Broadway.*
Ph. B., Marietta College, 1906.

WILLIAM BRADFORD NEWCOMB. Sassafras, Va. 106 *Jackson Pl.*
A. B., College of William and Mary, 1906.

FIRMADGE KING NICHOLS. Baltimore. 535 *N. Carrollton Av.*
A. B., Johns Hopkins University, 1906.

SAMUEL TIMOTHY NICHOLSON, JR. Bath, N. C. 518 *N. Broadway.*
A. B., University of North Carolina, 1906.

WILLEY HIGBY NORTON. Athens, O. 1810 *N. Broadway.*
A. B., Ohio University, 1906.

THOMAS GROVER ORR. Bosworth, Mo. 1519 *N. Caroline St.*
A. B., University of Missouri, 1907, and Student of Medicine, 1906-1907.

JEAN PAUL PRATT. Wellington, O. 2524 *McHenry St.*
A. B., Ohio State University, 1906.

CHESNEY MACAULEY RAMAGE. Fairmont, W. Va. 1623 *N. Bdway.*
S. B., West Virginia University, 1907.

ROBERT LEWIS RHODES. Louisville, Ga. 1743 *Jefferson St.*
A. B., Emory College, 1906.

HARRY HUNGATE ROBINSON. Walla Walla, Wash. 1006 *N. Bdway.*
A. B., University of Michigan, 1907, and Medical Student, 1906-08.

WALTER BLACK ROGERS. Washington, Pa. 518 *N. Broadway.*
A. B., Washington and Jefferson College, 1906.

ALICE ROHDÉ. Chicago, Ill. *Charles St. Ave., Sta. L.*
S. B., University of Chicago, 1903.

JAMES WENDEL ROSENFELD. Portland, Ore. 804 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1906.

RAYMOND SANDERSON. Indianola, Fla. 510 *N. Broadway.*
S. B., Princeton University, 1905.

RAPHAEL EUSTACE SEMMES, JR. Memphis, Tenn. 1519 *N. Caroline.*
A. B., University of Missouri, 1907, and Student of Medicine, 1906-1907.

HERBERT MILFORD SENSENY. Cleveland, O. 510 *N. Broadway.*
A. B., Adelbert College, 1906.

JOHN WILLIAM SHEETZ. New Oxford, Pa. 135 *N. Broadway.*
Ph. B., Franklin and Marshall College, 1906.

HENRY AUGUSTUS STEPHENSON. Homeville, Va. 1016 *N. Broadway.*
A. B., Randolph-Macon College, 1906.

HOWARD LESTER TAYLOR. Weeseville, N. Y. 510 *N. Broadway.*
A. B., Oberlin College, 1906.

WILLIAM LAWSON THORNTON. Talladega, Ala. 510 *N. Broadway.*
S. B., Alabama Polytechnic Institute, 1903.

THOMAS PALMER TREDWAY. Fawn Grove, Pa. 18 *W. Franklin St.*
A. B., Western Maryland College, 1906.

ARTHUR DE TALMA VALK. Annapolis. 510 *N. Broadway.*
A. B., St. John's College, 1906.

HERBERT FRANCIS VANORDEN. São Paulo, Brazil. 116 *Jackson Pl.*
Ph. B., Yale University, 1907, and Student of Medicine, 1906-1907.

CLYDE EMIL WATSON. Kingwood, W. Va. 1641 *N. Caroline St.*
S. B., West Virginia University, 1905.

HELEN WATSON. East Braintree, Mass. 104 *Jackson Pl.*
A. B., Wellesley College, 1905.

MILTON WEINBERG. Manning, S. C. 716 *N. Broadway.*
A. B., University of South Carolina, 1906.

THEODORE HENRY WENNING. Cincinnati, O. 527 *N. Wolfe St.*
A. B., St. Xavier College, 1904; Graduate Student, University of Cincinnati, 1904-06.

MILEY BARTON WESSON, JR. El Paso, Tex. 518 *N. Broadway.*
S. B., University of Texas, 1902.

JAMES HARVEY WHITCRAFT. Carrollton, O. 716 *N. Broadway.*
S. B., University of Wooster, 1905.

LUKE V. ZARTMAN. Columbus, O. 510 *N. Broadway.*
A. B., Ohio State University, 1906.

Third Year

LESTER ADAMS. Bangor, Me. 518 N. *Broadway.*
A. B., Bowdoin College, 1907.

JAIME DE ANGULO. Paris, France. *Annston, Sta. D.*
B. es Lett., University of Paris, 1906; Cooper Medical College, 1906-07.

JOHN VAN DOREN BEDINGER. Anchorage, Ky. 604 *Lennox St.*
S. B., Princeton University, 1907.

WALTER SCOTT BENNETT. Glens Falls, N. Y. 1632 *Jefferson St.*
A. B., Colgate University, 1904.

WILLIAM EDWIN BIRD, JR. Anacostia, D. C. 533 *N. Wolfe St.*
A. B., Johns Hopkins University, 1907.

ARTHUR LEONARD BLOOMFIELD. Baltimore. 861 *Park Av.*
A. B., Johns Hopkins University, 1907.

JOHN ROCHESTER BOOTH. Petersburg, Va. 1016 *N. Broadway.*
A. B., Randolph-Macon College, 1907.

GEORGE EDWARD BROCKWAY, JR. Salem, N. Y. 1625 *N. Broadway.*
A. B., Williams College, 1907; Summer Session, Cornell Univ., 1907.

BARNEY BROOKS. El Paso, Texas. 125 *Jackson Pl.*
S. B., University of Texas,. 1905.

EARLE BUELL CARTER. Waterbury, Conn. 1036 *N. Eutaw St.*
Ph. B., Yale University, 1907.

JOSEPH DAVID COHN. Corpus Christi, Texas. 1032 *N. Broadway.*
A. B., University of Texas, 1907.

JOHN COLLINSON, JR. South River. 716 *N. Broadway.*
A. B., St. John's College, 1907.

JOHN ARCHIBALD CAMPBELL COLSTON. Baltimore. 1016 *St. Paul St.*
Ph. B., Yale University, 1907.

GEORGE WASHINGTON COX. Litchfield, Ill. 1636 *N. Caroline St.*
S. B., University of Chicago, 1907.

FRANCIS RANDOLPH CRAWFORD. Kernstown, Va. 702 *N. Broadway.*
A. B., Washington and Lee University, 1906.

DAVID MELVIN DAVIS. Buffalo, N. Y. 709 *St. Paul St.*
S. B., Princeton University, 1907.

WILLIAM THOMAS DE SAUTELLE. La Crosse, Wis. 25 *S. Broadway.*
A. B., University of Wisconsin, 1908, and Student of Medicine, 1907-1908.

WILLIAM MILAS DUNN. Lancaster, S. C. 1512 *N. Broadway.*
A. B., Davidson College, 1903; Summer Session, Columbia Univ., 1907.

RALPH HENRY DUNNING. Auburn, N. Y. 305 *N. Broadway.*
A. B., Yale University, 1907.

CARY FINK. St. Matthews, Ky. 1037 *Cathedral St.*
A. B., Vassar College, 1906.

HIRAM FRIED. Baltimore. 2551 *Madison Av.*
A. B., Johns Hopkins University, 1907.

WILLIAM ARCHIBALD FRONTZ. Hughesville, Pa. 1119 *N. Caroline St.*
A. B., Princeton University, 1907.

WILLIAM DIXON FULLERTON. Chillicothe, O. 2331 *N. Calvert St.*
Ph. B., Yale University, 1907.

HIRAM MARY GALLAGHER. El Paso, Texas. 144 *Jackson Pl.*
A. B., Catholic University of America, 1907; Summer Session, University of Chicago, 1907.

THOMAS HENRY GILLAND. Greencastle, Pa. 22 *N. Chester St.*
Ph. B., Lafayette College, 1907.

ERNEST OWSLEY GRANT. Louisville, Ky. 1623 *N. Broadway.*
A. B., Central University of Kentucky, 1907.

ERNEST GEORGE GREY. Milwaukee, Wis. 1006 *N. Broadway.*
A. B., University of Wisconsin, 1907, and Student of Medicine, 1907-1908.

ELMER CHESTER GROSS. Walla Walla, Wash, 726 *N. Broadway.*
B. L., Whitman College, 1906.

ROY WALLACE HAMMACK. Harrington, Wash. 1129 *E. North Ave.*
A. B., University of Oregon, 1907.

CLIFFORD CLINTON HARTMAN. McKeesport, Pa. 129 *Jackson Pl.*
S. B., Pennsylvania College, 1907.

WILLIAM HALL HAWKINS. Midway, Ky. 1516 *N. Broadway.*
A. B., Central University of Kentucky, 1906; Student, Hospital College of Medicine, 1906-07.

ERNEST SINGLETON HENDRY. Washington, D. C. 1505 *N. Caroline St.*
A. B., Johns Hopkins University, 1907.

WILLIAM BRAWNER HETFIELD. Brookland, D. C. 125 *Jackson Pl.*
A. B., Catholic University of America, 1907.

FRANK MAHLON HOLCOMBE. Keeseville, N. Y. 812 *N. Broadway.*
A. B., University of Vermont, 1907.

ANNA HUBERT. Seattle, Wash. 1705 *Fairmount Av.*
A. B., University of Washington, 1901, and A. M., 1904.

WILLIAM RUTLEDGE HUDSON. Luray, Va. 1512 *N. Broadway.*
A. B., Washington and Lee University, 1906.

JOHN ATKINSON HUNNICUTT, JR. Athens, Ga. 1810 *N. Broadway.*

A. B., University of Georgia, 1907.

BARBARA HUNT. Bangor, Me. 1706 *E. Monument St.*

A. B., Vassar College, 1906; University of Maine, Summer School, 1907.

GEORGE IVES. Ft. Atkinson, Wis. *Hotel Hopkins.*

A. B., University of Wisconsin, 1907; Medical Student, Universities of Wisconsin and Chicago, 1907-09.

CONRAD JACOBSON. Chicago, Ill. 1524 *N. Broadway.*

S. B., Beloit College, 1900; Graduate Student, University of Chicago, three Summer Quarters.

NANCY BLANCHE JENISON. Chicago, Ill. 720 *N. Broadway.*

A. B., Wells College, 1898; Graduate Student, Univ. of Chicago, 1907.

CHARLES CHAUNCEY WINSOR JUDD. Pittsburg, Pa. 110 *Jackson Pl.*

A. B., Kenyon College, 1907.

NORMAN MACDONNELL KEITH. Toronto, Ont. 125 *Jackson Pl.*

A. B., University of Toronto, 1908, and Medical Student, 1906-1908.

LLOYD WARREN KETRON. Bloomingdale, Tenn. 1119 *N. Caroline St.*

A. B., Grant University, 1907.

TEDROW SYLVESTER KEYSER. Canal Dover, O. 1022 *N. Broadway.*

A. B., Wittenberg College, 1907.

OLIVER KINSEY, JR. Kinsey, N. C. 1731 *Fairmount Av.*

A. B., University of Virginia, 1907, and Medical Student, 1907-09.

ARTHUR CHARLES KISSLING. Milwaukee, Wis. 941 *N. Broadway.*

A. B., University of Wisconsin, 1906, and Medical Student, 1907-09.

BENJAMIN S. KLINE. Philadelphia, Pa. 1029 *N. Broadway.*

A. B., Swarthmore College, 1907.

HOWARD JAMES KNOTT. Walla Walla, Wash. 726 *N. Broadway.*

S. B., Whitman College, 1907.

LINDA BARTELS LANGE. New York, N. Y. 233 *W. Preston St.*

A. B., Bryn Mawr College, 1903.

WARREN EUGENE LEAPER. Green Bay, Wis. 1006 *N. Broadway.*

A. B., University of Wisconsin, 1908, and Student of Medicine, 1907-1908.

VEADER NEWTON LEONARD. New Haven, Conn. 120 *Jackson Pl.*

Ph. B., Yale University, 1907; Student, University of Freiburg, 1907-1908.

WILLIAM HENRY LICHT. Geneva, N. Y. 110 *Jackson Pl.*

S. B., Trinity College (Hartford), 1907.

HANS LISSER. San Francisco, Cal. 120 *Jackson Pl.*

A. B., University of California, 1907.

DREW WILLIAM LUTEN. Hickman, Ky. 1338 *N. Eden St.*

A. B., Kentucky State University, 1901; Fellow, Vanderbilt University, 1903-1904.

MONROE A. MAAS. Selma, Ala. 111 *Jackson Pl.*

A. B., University of Alabama, 1907.

ROBERT GEORGE MCALILEY. Chester, S. C. 1512 *N. Broadway.*

S. B., Davidson College, 1904; Student of Medicine, University of Maryland, 1907-1908.

JOHN THOMPSON MCCURDY. Toronto, Ont. 709 *St. Paul St.*

A. B., University of Toronto, 1908, and Student of Medicine, 1906-08.

HERBERT LEE MCNEIL. Houston, Tex. 1834 *E. Monument St.*

A. B., Southwestern University, 1906; Graduate Student, Univ. of Texas, 1906-1907.

CHARLES GOODWIN MERRIAM. Lexington, Mass. 812 *N. Broadway.*

A. B., Yale University, 1907.

JAMES RAGLAN MILLER. Hartford, Conn. 906 *N. Calvert St.*

A. B., Yale University, 1907.

ERNEST LUTHER MORGAN. Waynesville, N. C. 828 *N. Broadway.*

S. B., Wake Forest College, 1907, and Student of Medicine, 1905-1907.

JAMES ALOYSIUS O'DONNELL. Baltimore. 405 *Warren Av.*

A. B., Loyola College, 1906; Graduate Student, Johns Hopkins University, 1906-1907.

RALPH SHERBURNE PERKINS. Pittsfield, N. H. 120 *Jackson Pl.*

A. B., Dartmouth College, 1907.

EVERETT DUDLEY PLASS. Poughkeepsie, N. Y. 2605 *E. Preston St.*

A. B., Colgate University, 1907.

CARYL ASHBY POTTER. St. Joseph, Mo. 1516 *N. Broadway.*

A. B., University of Missouri, 1908, and Medical Department, 1907-1908.

IRA HUMPHREY PROUTY. Keene, N. H. 120 *Jackson Pl.*

S. B., Dartmouth College, 1907.

ARTHUR SAMUEL ROSENFELD. Portland, Ore. 804 *N. Broadway.*

A. B., Leland Stanford Jr. University, 1907.

AUGUSTA RUCKER. Austin, Tex. 1706 *E. Monument St.*

A. B., University of Texas, 1896, and A. M., 1900; Student, Medical Department, University of Wisconsin, June to October, 1907, and May to October, 1908.

CHARLES E. RYND. Westfield, N. Y. 1022 *N. Broadway.*

S. B., Hamilton College, 1907.

CHARLES ROBERT SAWYER. Glens Falls, N. Y. 1513 *N. Broadway.*

Ph. B., Wesleyan University (Conn.), 1906.

DWIGHT MILTON SAWYER. Glens Falls, N. Y. 1513 *N. Broadway.*
Ph. B., Wesleyan University (Conn.), 1906.

MABEL SEAGRAVE. Seattle, Wash. 529 *N. Wolfe St.*
A. B., Wellesley College, 1905.

WALTER GRESHAM SEXTON. Marshfield, Wis. 1006 *N. Broadway.*
A. B., University of Wisconsin, 1908, and Student of Medicine, 1907-08.

PAUL ROTHROCK SIEBER. Gettysburg, Pa. 129 *Jackson Pl.*
A. B., Pennsylvania College, 1907.

WILLIAM KNEPPER SKILLING. Lonaconing. 306 *W. Lanvale St.*
A. B., Johns Hopkins University, 1906.

HELEN WILLISTON SMITH. Norwalk, Conn. 1404 *E. Chase St.*
A. B., Bryn Mawr College, 1906.

ROY ROSS SNOWDEN. Washington, Pa. 1731 *N. Broadway.*
A. B., Washington and Jefferson College, 1907.

LEWIS CASS SPENCER. Jonesville, La. 125 *Jackson Pl.*
S. B., Tulane University, 1907.

MARSHALL BYRON SPONSLER. Collegeville, Pa. 1632 *Jefferson St.*
A. B., Ursinus College, 1907.

ALEXANDER MCCULLEY STEVENS. Easton. 812 *N. Broadway.*
A. B., St. John's College, 1907.

GEORGE ADOLPH STEWART. Baltimore. 2425 *Madison Av.*
A. B., Johns Hopkins University, 1907.

EDGAR STILLMAN. San Francisco, Cal. 702 *N. Broadway.*
A. B., Leland Stanford Jr. University, 1907.

THORNTON EDWIN VAIL. Thompsonville, Conn. 821 *N. Montford Av.*
Ph. B., Yale University, 1907.

WILLIAM JOSHUA WEESE. Sheridan, Mo. 1625 *N. Broadway.*
S. B. and A. B., University of Missouri, 1905, and Medical Student, 1907-1909.

ISIDORE KALISCH WIENER. Newark, N. J. 610 *N. Broadway.*
A. B., Princeton University, 1907.

EDWIN ROBERT WIESE. Allegheny, Pa. 1015 *N. Broadway.*
A. B., Western University of Pennsylvania, 1907.

CLAUD MAY WINN. Haynesville, La. 1814 *N. Broadway.*
S. B., Tulane University, 1906, and Student of Medicine, 1906-1907.

JULIAN MAST WOLFSOHN. San Francisco, Cal. 103 *Jackson Pl.*
S. B., University of California, 1905, and M. S., 1907.

Second Year

CLARENCE LADELLE ANDREWS. Conway, La. 1032 *N. Broadway.*
S. B., Louisiana State University, 1908; University of Strassburg, 1909.

EDWIN I. BARTLETT. Pullman, Wash. 1505 *N. Caroline St.*
A. B., Washington State College, 1908; University of Strassburg, 1909.

JOSEPH HOWARD BEARD. Rutland. 320 *N. Carey St.*
A. B., St. John's College, 1902.

JANE ELIZABETH BIGELOW. Terre Haute, Ind. 104 *Jackson Pl.*
A. B., Butler College, 1907.

CHARLES ALBERT BOWERS. Wheeling, W. Va. 1513 *N. Broadway.*
S. B., West Virginia University, 1908; Summer Session, Bethany College, 1903; Summer Session, University of Wooster, 1904.

EVELETH WILSON BRIDGMAN. Baltimore County. *Woodbrook.*
A. B., Johns Hopkins University, 1908.

CYRUS CATHEY BROWN. Arkadelphia, Ark. 1338 *N. Eden St.*
A. B., University of Arkansas, 1908.

JOHN LOUIS BUTSCH. Lynnville, Ind. *Hotel Hopkins.*
S. B., Purdue University, 1905.

BURNS STODDARD CHAFFEE. Santa Ana, Cal. 808 *E. Preston St.*
A. B., Leland Stanford Jr. University, 1908.

ALAN MASON CHESNEY. Baltimore. 2838 *N. Calvert St.*
A. B., Johns Hopkins University, 1908.

JACOB COHEN. Baltimore. 1000 *N. Gay St.*
A. B., Johns Hopkins University, 1908.

MARYE YEAMANS DABNEY. Birmingham, Ala. 521 *N. Wolfe St.*
Ph. B., University of Chicago, 1908.

WILLIAM MILTON DUMM. Laramie, Wyo. 1713 *N. Broadway.*
S. B., Ohio Wesleyan University, 1908.

HUBERT FAIRLEIGH DUNN. St. Joseph, Mo. 1510 *N. Broadway.*
A. B., William Jewell College, 1908.

MILTON THOMAS EDGERTON, JR. Oak Ridge, N. C. 1287 *N. Bdway.*
A. B., University of Georgia, 1908.

ROLAND FREDERICK FISHER. Baraboo, Wis. 941 *N. Broadway.*
S. B., University of Wisconsin, 1909, and Medical Student, 1907-09.

MARY RANDOLPH FLEMING. Lynchburg, Va. 1705 *Fairmount Av.*

A. M., Randolph-Macon Woman's College, 1902.

OVID CLEMMONS FOOTE. Roaring River, N. C. 828 *N. Broadway.*

A. B., Wake Forest College, 1908.

MABEL FOSSLER. Lincoln, Neb. *Fairmount Av. and Ann St.*

A. B., University of Nebraska, 1907.

WINTER REGINALD FRANTZ. Cumberland. 1706 *N. Caroline St.*

S. B., West Virginia University, 1908.

WILLA MAY FRICKE. New York, N. Y. 3932 *Park Heights Av.*

A. B., Barnard College, 1906; Medical College and Hospital for Women and Children, 1906-1909 (2½ years).

JULIAN EUGENE GAMMON. Mariana, Fla. 1304 *N. Broadway.*

S. B., University of Florida, 1908.

JAMES HEYWARD GIBBES. Columbia, S. C. 1515 *E. Biddle St.*

A. B. and S. B., University of South Carolina, 1908.

WILLIAM LEE GILLS. Bedford City, Va. 1624 *N. Broadway.*

A. B., Randolph-Macon College, 1905.

FREDERICK AKIN GLASS. Booneville, Ky. 1201 *N. Caroline St.*

A. B., Central University (Ky.), 1908.

ERNEST WILLIAM GOODPASTURE. Nashville, Tenn. 541 *N. Luzerne.*

A. B., Vanderbilt University, 1907.

ROSCOE WILLIS HALL. Millerstown, Pa. 1119 *N. Caroline St.*

Ph. B., Dickinson College, 1908.

JAMES B. HOLMES. Lynchburg, Va. 1336 *N. Caroline St.*

A. B., University of Virginia, 1909, and Medical Student, 1908-09.

SAMUEL HAYMANN HURWITZ. Chicago, Ill. 105 *Jackson Pl.*

A. B., Harvard University, 1907, and A. M., 1908; University of Strassburg, 1909.

HELMINA JEIDELL. New York, N. Y. 105 *Jackson Pl.*

A. B., Barnard College, 1908; Special Student, Pasteur Institute, Paris, Summer of 1909.

RUDOLPH ALFRED KOCHER. San Jose, Cal. 808 *E. Preston St.*

A. B., Leland Stanford Jr. University, 1908.

HENRY HOFMANN LOOS. Baltimore. 524 *N. Pine St.*

A. B., Johns Hopkins University, 1908.

WALTER GAY LOUGH. Fairmont, W. Va. 1513 *N. Broadway.*

S. B., University of West Virginia, 1908.

OSWALD SWINNEY LOWSLEY. Los Angeles, Cal. 739 *E. Preston St.*

A. B., Leland Stanford Jr. University, 1905.

HARVEY ROSS MCALLISTER. Gettysburg, Pa. 139 *Jackson Pl.*
A. B., Pennsylvania College, 1908.

WILLIAM BRADBURY MCCLURE. Elk Lick, Pa. 139 *Jackson Pl.*
S. B., Pennsylvania College, 1908.

HUGH MCCULLOCH. Little Rock, Ark. 702 *N. Broadway.*
A. B., University of Arkansas, 1908.

JEROME MEYER. Uniontown, Ala. 103 *Jackson Pl.*
S. B., University of Alabama, 1908.

WILLIAM LAWRENCE MILLEA. Worcester, Mass. 1906 *E. Madison St.*
A. B., Clark College, 1908.

EDGAR ALLEN MILLER. Gettysburg, Pa. 1711 *Fairmount Av.*
S. B., Pennsylvania College, 1908.

KNOX EMERSON MILLER. St. Joseph, Mo. 1510 *N. Broadway.*
A. B., William Jewell College, 1908.

NATHANIEL MILLS. Mt. Vernon, N. Y. 810 *N. Broadway.*
A. B., Williams College, 1908.

WILLIAM HAVILAND MORRISS. Baltimore. 1904 *Mt. Royal Terr.*
A. B., Haverford College, 1908.

EDWARD JAMES MURRAY. Pawtucket, R. I. 716 *N. Broadway.*
A. B., Holy Cross College, 1908.

WILLIAM NEILL, JR. Charles Town, W. Va. *Ann St. and Fairmount Av.*
A. B., St. John's College, 1908.

RALPH WILBUR NICHOLS. North Haven, Conn. 1717 *Fairmount Av.*
Ph. B., Yale University, 1908.

LOUISE PEARCE. Boston, Mass. 1221 *Bolton St.*
A. B., Leland Stanford Jr. University, 1907; Medical Student, Boston University, 1907-09.

CHARLES HAMLIN PELTON. Middletown, Conn. 102 *Jackson Pl.*
A. B., Trinity College, 1905.

MARTIN HAYWARD POST, JR. St. Louis, Mo. 709 *St. Paul St.*
A. B., Amherst College, 1908.

CARL WHEELER RAND. Monson, Mass. 1624 *N. Broadway.*
A. B., Williams College, 1908, and A. M., 1909.

CHARLES DWIGHT REID, JR. Auburn, N. Y. 1123 *N. Caroline St.*
A. B., Williams College, 1908.

MONT ROGERS REID. Oriskany, Va. 1304 *N. Broadway.*
A. B., Roanoke College, 1908.

HAROLD IRWIN REYNOLDS. Lexington, Ga. 810 *N. Broadway.*
A. B., University of Georgia, 1908.

MAX SPENCER ROHDÉ. Princeton, Ill. 529 *N. Wolfe St.*
S. B., University of Chicago, 1908.

PETER BENJAMIN SABASON. New Haven, Conn. 4 *N. Broadway.*
A. B., Yale University, 1909, and Medical Student, 1907-09.

HENRY CHRISTIAN SCHMEISSER. Baltimore. 2401 *Eutaw Pl.*
A. B., Johns Hopkins University, 1908.

NATHAN P. SEARS. Syracuse, N. Y. 1119 *N. Caroline St.*
Ph. B., Syracuse University, 1908.

REGINALD OLIVER SELLMAN. Baltimore. *The Mt. Royal.*
A. B., Johns Hopkins University, 1908.

ROLLA J. SHALE. Highland, Kan. 1022 *N. Broadway.*
A. B., Oberlin College, 1908.

ELLERY DEWITT SIMPSON. Westminster. 1017 *N. Broadway.*
A. B., Western Maryland College, 1908.

WARREN RICHARDS SISSON. Hamilton, N. Y. 122 *Jackson Pl.*
A. B., Colgate University, 1908.

HARRY RICHMOND SLACK, JR. La Grange, Ga. 1810 *N. Broadway.*
A. B., University of Georgia, 1908.

TRAMMELL STARR. Calhoun, Ga. 1237 *N. Broadway.*
A. B., Emory College, 1908.

FREDERICK WALKER ST. CLAIR. Latrobe, Pa. *Hotel Hopkins.*
A. B., Washington and Jefferson College, 1908.

THORNTON STEARNS. Asheville, N. C. 1717 *Fairmount Av.*
A. B., Davidson College, 1906.

CHARLES MOORE STEELE. Chicago, Ill. 1029 *N. Broadway.*
S. B., University of Chicago, 1904; Medical Department, University of Illinois, 1908-09; Summer Quarter, University of Chicago, 1909.

HOLLAND NEWTON STEVENSON, 2nd. Pittsfield, Mass.
Ph. B., Yale University, 1908. 1717 *Fairmount Av.*

ABRAHAM STRAUSS. Lowell, Mass. 521 *N. Wolfe St.*
A. B., Harvard University, 1909.

DAVID CORBIN STREETT. Baltimore. 712 *Park Av.*
A. B., Johns Hopkins University, 1908.

ARTHUR L. WALTERS. Battle Ground, Ind. 1022 *N. Broadway.*
S. B., Purdue University, 1904.

CHARLES HANSELL WATT. Thomasville, Ga. 1717 *Fairmount Av.*
S. B., Davidson College, 1906.

ADRIEL CLARK WEAKLEY. Shelbyville, Ky. 410 *N. Broadway.*
A. B., Georgetown College (Ky.), 1908.

LEWIS HILL WEED. Cleveland, O. 1020 *N. Broadway*
A. B., Yale University, 1908.

DONALD BRECKINRIDGE WELLS. Hartford, Conn. 106 *Jackson Pl.*
A. B., Yale University, 1907.

ALEXANDER WATSON WILLIAMS. Washington, D. C.
A. B., Harvard University, 1908. 1336 *N. Caroline St.*

FRANCIS THOMAS WILLIAMS. Poolesville. 1304 *N. Broadway.*
A. B., Johns Hopkins University, 1908.

FREDERICK WILLIAM WITTICH. Hazleton, Pa. 139 *Jackson Pl.*
A. B., Pennsylvania College, 1908.

ELEANOR BITTINGER WOLF. Baltimore. 2112 *Oak St.*
A. B., Woman's College of Baltimore, 1908.

GEORGE BANEY WOLFF. Myerstown, Pa. 724 *N. Broadway.*
A. B., Ursinus College, 1908.

JAMES AUGUSTUS WOOD. Selma, Ala. 1304 *N. Broadway.*
A. B., Southern University, 1907; University of Alabama, Summer of 1906.

HAROLD BURTON WOODWARD. Terryville, Conn. 102 *Jackson Pl.*
S. B., Wesleyan University (Conn.), 1908. (81)

First Year

GEORGE NICHOLAS ACKER. Washington, D. C. 113 *Jackson Pl.*
S. B., Pennsylvania College, 1909.

ARTHUR WILBURN ALLEN. Somerset, Ky. 1717 *Fairmount Av.*
A. B., Georgetown College (Ky.), 1909.

BURTON ELIAS BELCHER. St. Petersburg, Fla. 1028 *N. Broadway.*
S. B., Florida State College, 1905.

MAURICE BLOCHER BENDER. Gettysburg, Pa. 141 *Jackson Pl.*
S. B., Pennsylvania College, 1909.

GEORGE WILLIAM BISHOP. Baltimore. 1424 *Nicholson St.*
A. B., Johns Hopkins University, 1909.

ALBERT ADAM BORNSCHEUER. Pittsburg, Pa. 1922 *E. Lafayette Av.*
S. B., Washington and Jefferson College, 1909.

JAMES THOMAS BRENNAN. Clarksburg, W. Va. 1617 *N. Broadway.*
A. B., Rock Hill College, 1909.

NATHANIEL HAWLEY BRUSH. Towson. *Sheppard Hospital.*
A. B., Johns Hopkins University, 1909.

NOLAND MACKENZIE CANTER. Baltimore. 803 *N. Stricker St.*
A. B., Randolph-Macon College, 1909.

WILBUR GLENN CARLISLE. Hillsboro, O. 1713 *N. Broadway.*
A. B., Ohio Wesleyan University, 1909; Summer Quarter, University of Chicago, 1909.

HENRY WISDOM CAVE. Paducah, Ky. 1201 *N. Caroline St.*
A. B., Central University of Kentucky, 1909.

HARLEY TUTTLE CAVERLY. Rutland, Vt. 142 *Jackson Place.*
A. B., Dartmouth College, 1909.

HOWARD LEE CECIL. Millersville. *Ann St. and Fairmount Av.*
A. B., St. John's College, 1908.

GEORGE DAVIES CHUNN. Holly Grove, Ark. 122 *Jackson Place.*
S. B., University of Arkansas, 1908.

HELEN DOROTHY CLARKE. Boston, Mass. 104 *Jackson Place.*
A. B., Vassar College, 1909.

JOSEPH POWITZER COHEN. Newburgh, N. Y. 521 *N. Wolfe St.*
A. B., Harvard University, 1909.

ROBERT JAY COOK. Independence, Ia. 144 *Jackson Place.*
A. B., State University of Iowa, 1909.

GEORGE WASHINGTON CORNER, 3d. Baltimore Co. *Roland Park.*
A. B., Johns Hopkins University, 1909.

KENT EDWARD DARROW. Fargo, N. D. 144 *Jackson Place.*
S. B., North Dakota Agricultural College, 1909.

DANIEL DAVIS. Washington, D. C. 626 *N. Broadway.*
A. B., Harvard University, 1909.

DION C. DOUROPOULOS. Baltimore. 2511 *E. Fairmount Av.*
A. B., Rizari's College, 1906; Graduate Student, St. John's College, 1907-1908, and University of Virginia, Summer of 1908.

WILLIAM DWYER. Hartford, Conn. 1015 *N. Broadway.*
S. B., Trinity College, 1909.

AVIS CHIPPEWA EATON. Princeton, Minn. 104 *Jackson Place.*
A. B., Wellesley College, 1909.

CORTLANDT WHITEHEAD WILSON ELKIN. Smicksburg, Pa.
A. B., Allegheny College, 1909. 1220 *N. Eden St.*

JOHN WILLIAM FAUST. Schenectady, N. Y. 428 *N. Broadway.*
S. B., Union College, 1909.

JAMES GRANT FERGUSSON. Forfarshire, Scotland.
A. B., Leland Stanford Jr. University, 1908. 1024 *N. Broadway.*

ROSWELL ELMORE FLACK. Rutherfordton, N. C. 937 *N. Bdway.*
A. B., Wake Forest College, 1901.

FREDERICK LAMONT GATES. Montclair, N. J. *Central Y. M. C. A.*
A. B., Yale University, 1909.

LINTON GERDINE. Athens, Ga. 527 *N. Wolfe St.*
S. B., University of Georgia, 1909.

MAURICE HOPE GIVENS. Pittsburg, Ky. 1032 *N. Broadway.*
Ph. B., Yale University, 1909.

CLARENCE FLACK GRAHAM. Albany, N. Y. 428 *N. Broadway.*
A. B., Yale University, 1909.

HERBERT HART HAGAN. Trenton, Ky. 1717 *Fairmount Av.*
A. B., Georgetown College (Ky.), 1908.

HENRY HUNTON HAMPTON. Hill City, Tenn. 1041 *N. Broadway.*
S. B., University of Tennessee, 1903.

TURNER MOREHEAD HARRIS. Danville, Va. 1254 *N. Broadway.*
A. B., Randolph-Macon College, 1907; A. M., University of Virginia, 1909.

ISAAC PICARD HEYMANN. Dutchtown, La. 937 *N. Broadway.*
S. B., Louisiana State University, 1909.

CHARLES CRAWFORD HINTON. Macon, Ga. 424 *N. Broadway.*
Ph. B., Emory College, 1909.

WALTER RICHARD HOLMES. Macon, Ga. 422 *N. Broadway.*
A. B., University of Georgia, 1909.

GILBERT HORRAX. Montclair, N. J. 122 *Jackson Place.*
A. B., Williams College, 1909.

LEE HOWARD. Macon, Ga. 422 *N. Broadway.*
A. B., Mercer University, 1909.

JAMES HOWARD HUDDLESON, JR. Portland, Ore.
A. B., Princeton University, 1909. 1731 *Fairmount Av.*

EDGAR E. HUME, JR. Frankfort, Ky. 1 *W. Franklin St.*
A. B., Central University of Kentucky, 1908, and A. M., 1909.

AMOS FRANCIS HUTCHINS. Barstow. 1032 *N. Broadway.*
A. B., St. John's College, 1906.

KARL FREDERICK IRVIN. Altoona, Pa. 1731 *Fairmount Av.*
S. B., Pennsylvania College, 1909.

EDWARD JELKS. Macon, Ga. 422 *N. Broadway.*
A. B., Mercer University, 1909.

ALBERT LESTER JONES. Weatherford, Tex. 1625 *N. Broadway.*
S. B., Baylor University, 1909.

WILLIAM SHIREY KEISTER. Roanoke, Va. 1310 *N. Broadway.*
A. B., Roanoke College, 1907.

RICHARD FULTON KIEFFER. Hagerstown. 135 *N. Broadway.*
A. B., Franklin and Marshall College, 1907.

GEORGE AUGUST LEONARD KOLMER. Salem, Va. 1310 *N. Bdway.*
A. B., Roanoke College, 1907, and A. M., 1909.

WALTER MAX KRAUS. New York, N. Y. 125 *Jackson Place.*
A. B., Harvard University, 1909.

CHARLES ADAM LAUBACH. Nazareth, Pa. 20 *Kenwood Av.*
S. B., Muhlenburg College, 1909.

ROBERT LOUIS LEVY. New York, N. Y. 113 *Jackson Place.*
A. B., Yale University, 1909.

JOHN CUSHMAN LYMAN. Dayton, Wash. 718 *N. Broadway.*
S. B., Whitman College, 1909.

PATRICK FRANCIS MCGUIRE. Piedmont, W. Va. 420 *N. Broadway.*
A. B., Rock Hill College, 1909.

WILLIAM CLIFFORD MCKEE. Los Angeles, Cal. 739 *N. Broadway.*
S. B., Pomona College, 1908.

MCDUGALD KEENER MCLEAN. Waco, Tex. 1028 *N. Broadway.*
A. B., Southwestern University, 1908.

WILLIAM HOWARD MICHAEL. Perryman. 924 *N. Calvert St.*
A. B., Johns Hopkins University, 1909.

CHALMERS HALE MOORE. Birmingham, Ala. 1623 *N. Broadway.*
A. B., Washington and Lee University, 1909.

JOHN JAMIESON MORTON, JR. Worcester, Mass. 1624 *N. Broadway.*
A. B., Amherst College, 1907.

ARISTINE PIXLEY MUNN. New York, N. Y. 2400 *N. Calvert St.*
A. B., Bryn Mawr College, 1909.

WILLIAM EDWARD NESBIT. Fayetteville, Ark. 122 *Jackson Pl.*
A. B., University of Arkansas, 1909.

MERLE CORNELIUS NEWKIRK. Ellicottville, N. Y. 1220 *N. Eden St.*
Ph. B., Syracuse University, 1909.

HAROLD HASTINGS NEWMAN. Woodstock, Va. 1622 *N. Broadway.*
A. B., Randolph-Macon College, 1909.

HERBERT HAMMOND OGBURN. Greensboro, N. C. 1017 *N. Broadway.*
S. B., West Lafayette College, 1908; Medical Student, University of North Carolina, 1908-09.

WILLIAM HARWOOD OLMSTED. Cedar Rapids, Ia. 113 *Jackson Pl.*
S. B., Coe College, 1909.

JOHN KELSO ORMOND. Princeton, N. J. 1633 *N. Broadway.*
A. B., Princeton University, 1906.

FRANK LAFAYETTE PASCHAL. San Antonio, Tex. 520 *N. Broadway.*
A. B., University of Texas, 1909; Summer Session, University of Chicago, 1908.

LAWRENCE TYLER POST. St. Louis, Mo. 709 *St. Paul St.*
A. B., Yale University, 1909.

GROVER FRANCIS POWERS. W. Lafayette, Ind. 1701 *N. Caroline St.*
S. B., Purdue University, 1908.

WILLIAM DANBRIDGE REDDISH. Somerset, Ky. 1717 *Fairmount Av.*
A. B., Kentucky University, 1909.

THOMAS MILTON RIVERS. Jonesboro, Ga. 424 *N. Broadway.*
A. B., Emory College, 1909.

ETHEL MAY ROCKWOOD. Townsend, Mass.
S. B., Simmons College, 1909. *Ann St. and Fairmount Av.*

ROGER RALPH RUPP. Lehighton, Pa. 20 *Kenwood Av.*
S. B., Muhlenburg College, 1909.

ROBERT WILSON SELBY. Burgess' Store, Va. 1028 *N. Eden St.*
A. B., Western Maryland College, 1907.

AUSTIN SHAW. Millbridge, Me. 118 *Jackson Pl.*
S. B., Colby College, 1909.

HENRY NEWTON SHAW. Oxford, Pa. 211 *W. Franklin St.*
A. B., Princeton University, 1907.

FREDERICK JANNEY SMITH. Baltimore. 1007 *Madison Av.*
A. B., Johns Hopkins University, 1909.

ROSCOE ROY SPENCER. West Point, Va. 1016 *N. Broadway.*
A. B., Richmond College, 1909.

JAMES LAWRENCE STRINGFELLOW. Batna, Va. 529 *N. Wolfe St.*
A. B., Richmond College, 1909.

CHARLES B. THOMPSON. Baltimore. 212 *E. Chase St.*
A. B., Haverford College.

MARTILLUS H. TODD. Baltimore. 1202 *E. Monument St.*
A. B., Johns Hopkins University, 1909.

GROVER TRACY. Lineboro. 113 *Jackson Pl.*
A. B., Pennsylvania College, 1909.

LEO STEWART TRASK. Springfield, Me. 118 *Jackson Pl.*
S. B., Colby College, 1909.

FRANCIS BERGER TRUDEAU. Saranac Lake, N. Y. 112 *Jackson Pl.*
A. B., Yale University, 1909.

JOSEPH RICHARD TURNER, JR. Tacoma, Wash. 1505 *N. Caroline St.*
S. B., Whitworth College, 1909.

FRANKLIN CLARK WAGENHALS. Columbus, O. 144 *Jackson Pl.*
A. B., Ohio State University, 1907, and Graduate Student, 1907-08.

ROBERT CARROLL WALKER. Waycross, Ga. 142 *Jackson Pl.*
S. B., Davidson College, 1909.

SHELTON HUGHES WATKINS. Owensboro, Ky. 1201 *N. Caroline St.*
A. B., Central University of Kentucky, 1908, and A. M., 1909.

ERNEST MILTON WATSON. Providence, R. I. 908 *N. Broadway.*
S. B., Pennsylvania College, 1909.

MAURICE STEVENSON WEAVER. Gettysburg, Pa. 141 *Jackson Pl.*
S. B., Pennsylvania College, 1909.

BENJAMIN FRANCIS WEEMS, JR. Houston, Tex. 1131 *Cathedral St.*
A. B., Johns Hopkins University, 1909.

NORMAN HARRIS WILLIAMS. Moodus, Conn. 908 *N. Broadway.*
Ph. B., Brown University, 1909.

WILLIAM WALTER YOUNG. Danville, Va. 1808 *W. Baltimore St.*
A. B., Randolph-Macon College, 1909.

JACOB LANDIS ZIMMERMAN. Palmyra, Pa. 1016 *N. Broadway.*
A. B., Franklin and Marshall College, 1909. (93)

PHYSICIANS ATTENDING SPECIAL COURSES, 1909-10

JOSHUA F. ABEL. Waynesville, N. C.

M. D., Baltimore University, 1892. *Pediatrics.*

JOHN W. AMESSE. Denver, Colo.

M. D., University of Michigan, 1898. *Medicine and Pediatrics.*

RALPH H. AUGUR. Baltimore.

M. D., Baltimore Medical College, 1909. *Genito-Urinary Diseases.*

LOUIS BERNHEIM. Butte, Mont.

M. D., University of Vienna, 1894. *Pathology.*

THOMAS E. BLACKSHEAR. Thomasville, Ga.

M. D., University of Maryland, 1903. *Genito-Urinary Diseases.*

GEORGE L. BROWN. Tupelo, Miss.

M. D., Tulane University, 1907. *Pediatrics.*

FRANK A. CAMALIER. Leonardtown.

M. D., Georgetown University, 1908. *Medicine.*

WALTER R. COX. Baltimore.

M. D., Baltimore Medical College, 1903. *Gynecological Pathology.*

MARY C. DE GARIS. Melbourne, Australia.

S. B., Melbourne University, 1904, and M. D., 1907. *Medicine.*

JENNIE G. DRENNAN. Kingston, Ont.

M. D. C. M., Queen's University (Ont.), 1895. *Bacteriology and Pathology.*

GEORGE B. EVANS. Dayton, O.

M. D., Ohio Medical College, 1878. *Genito-Urinary Surgery.*

IRVING H. FOWLE. Milwaukee, Wis.

M. D., Marquette University, 1900. *General Course.*

LOUIS P. HOWE. San Francisco, Cal.

M. D., University of California, 1908. *X-Ray Diagnosis and Therapeutics.*

KATHARINE P. HOYT. Sioux City, Iowa.

M. D., Woman's Medical College (N. Y.), 1887. *Medicine.*

WILLIAM H. HOYT. Sioux City, Iowa.

M. D., New York University, 1886. *Medicine.*

J. HOWARD IGLEHART. Baltimore.

M. D., University of Maryland, 1903. *Medicine.*

FREDERICK I. JANSEN. Fonda, N. Y.

M. D., Albany Medical College, 1898. *Gross Anatomy.*

JOHN J. JONES. Wilmington, Del.

M. D., College of Physicians and Surgeons (Balt.), 1879. *Medicine.*

WINSTON B. JONES. Camden, Ala.
M. D., Tulane University, 1901. *Medicine.*

WILLIAM F. KAISER. Portland, Ore.
M. D., University of Oregon, 1908. *Medicine and Gross Anatomy.*

G. CARROLL LOCKARD. Baltimore.
M. D., University of Maryland, 1903. *Medicine.*

JOHN A. MACARTHUR. Ottawa, Can.
M. D. C. M., McGill University, 1879. *Bacteriology and Pathology.*

ALEXANDER D. MACDONALD. Kalispell, Mont.
M. D., McGill University, 1887. *Gross Anatomy.*

WILLIAM Y. MACKENZIE. Weatherford, Tex.
M. D., Pulte Medical College (Cincinnati), 1891. *Medicine.*

KATHERINE MCCLURG. Oakland, Cal.
M. D., Cooper Medical College, 1903. *Medicine.*

JAMES B. MCCORD. Durban, S. Africa.
M. D., Northwestern University, 1894. *Medicine.*

JOSEPH A. MCKEE. Seattle, Wash.
M. D. C. M., University of Toronto, 1893. *Medicine.*

WILLIS MERRITT. Smithville, Ont.
M. B., University of Toronto, 1905. *Medicine.*

FUJIO MITSUYOSHI. Kishimagun, Sagaken, Japan.
M. B., Jikei-i-in Medical College (Tokyo), 1908. *Medicine.*

DUDLEY J. MORTON. Baltimore.
M. D., Hahnemann Medical College (Phila.), 1907. *Surgical Pathology.*

ARTHUR I. MURPHY. Pittsburgh, Pa.
M. D., University of Pennsylvania, 1908. *Genito-Urinary Diseases.*

FREDERICKA PEARCE. Battle Creek, Mich.
A. B., Albion College, 1908. *Gross Anatomy.*

J. STEWART RODMAN. Philadelphia, Pa.
M. D., Medico-Chirur. Coll. of Phila., 1906. *Surgical Pathology.*

WILLIAM H. ROUECHE. Meadville, Pa.
M. D., Baltimore Medical College, 1895. *Pediatrics.*

ISIDORE B. ROUGON. Chenal, La.
M. D., Tulane University, 1909. *Genito-Urinary Surgery.*

FRANCIS J. SAVAGE. St. Paul, Minn.

M. D., University of Minnesota, 1901. *X-Ray Diagnosis.*

HOWARD SOMERS. San Francisco, Cal.

M. D., Leland Stanford Jr. University, 1904. *Genito-Urinary Diseases.*

FRANK F. SORNBERGER. Cortland, N. Y.

M. D., Syracuse University, 1909. *Surgical Pathology.*

JOHN C. STALEY. St. Paul, Minn.

M. D., University of Minnesota, 1903. *X-Ray Diagnosis.*

JOSEPH G. THOMAS. Adamstown.

M. D., Baltimore Medical College, 1905. *Bacteriology.*

ROBERT A. WARNER. Baltimore.

M. D., University of Maryland, 1895. *Medicine.*

EULALIE WOOD. St. Louis, Mo.

M. D., College of Physicians and Surgeons (Chicago), 1908. *Medicine.*

WILLIAM H. WOODS. Lake City, S. C.

M. D., University of Nashville, 1905. *Pediatrics.*

AMELIA V. ZIMMERMAN. Baltimore.

M. D., Southern Homeopathic Medical College, 1895. *Obstetrics and Gross Anatomy.*

PHYSICIANS ATTENDING SPECIAL COURSES DURING 1909

[Too late for the Register for 1908-09]

DAVID AUTEY. Marietta, O.

M. D., Memphis Hosp. Med. Coll., 1900. *Medicine.*

IRENE B. BALLARD. Radford, Va.

M. D., University of Michigan, 1903. *Medicine.*

ROBERT L. BLAKE. Baltimore.

M. D., Baltimore Medical Coll., 1905. *Medicine.*

ALBERT M. BRANDT. Bismarck, N. D.

M. D., University of Minnesota, 1905. *Medicine.*

HARLEY O. BRATTAN. Columbus, O.

M. D., Ohio Medical College, 1907. *Genito-Urinary Diseases.*

HERBERT E. BROWN. Goldthwaite, Tex.

M. D., Memphis Hospital Med. Coll., 1901. *Medicine.*

THOMAS R. CHAMBERS. Baltimore.

A. B., Johns Hopkins University, 1906. *Clinical Microscopy.*

ALBERT J. COATS. Lincoln, Neb.

M. D., Northwestern University, 1907. *Surgery.*

ANTON DILGER. Front Royal, Va.

M. D., University of Heidelberg, 1908. *Medicine.*

DOUGLAS F. DUVAL. Baltimore.

M. D., University of Virginia, 1894. *Medicine.*

BURT A. DYAR. De Smet, S. D.

M. D., University of Minnesota, 1905. *Medicine.*

GERALD A. EZEKIEL. Richmond, Va.

M. D., Med.-Chirurgical Coll. (Va.), 1908. *Medicine.*

JOHN C. FOLEY. Waukegan, Ill.

M. D., Rush Medical College, 1890. *Medicine.*

MARIE K. FORMAD. Philadelphia, Pa.

M. D., Woman's Med. Coll. (Phila.), 1886. *Cystoscopy.*

A. HAMILTON. Ft. Wayne, Ind.

M. D., Coll. P. & S. (N. Y.), 1902. *Gross Anatomy.*

EDWIN E. HARRIS. Tabor, Ia.

M. D., Howard University, 1895. *Medicine.*

HENRY T. HARRIS. Madison, Ga.

M. D., University of Georgia, 1898. *Medicine.*

E. HERBERT HARSH. Magnolia, O.
M. D., Baltimore Medical College, 1901. *Genito-Urinary Diseases.*

HERMAN G. HEILIG. Salisbury, N. C.
M. D., University of Maryland, 1899. *Genito-Urinary Diseases.*

RICHARD C. HILL. Great Falls, Mont.
M. D., McGill Univ., 1905; M. R. C. S., Lond., 1906. *Gross Anatomy.*

CLIFTON B. JONES. Philadelphia, Pa.
M. D., University of Pennsylvania, 1908. *Medicine.*

JAMES F. LEE. Mt. Vernon, O.
M. D., Starling Medical College, 1897. *Medicine.*

J. W. MCCARVER. Brownwood, Texas.
M. D., University of Texas, 1908. *Cystoscopy.*

GORDON F. MCKIM. Springfield, O.
M. D., Medical College of Ohio, 1903. *Genito-Urinary Diseases.*

FRANK D. MOORE. Chicago, Ill.
M. D. Coll, P. & S. (Chicago), 1899. *Surgical Pathology.*

DUDLEY J. MORTON. Baltimore.
M. D., Hahnemann Med. Coll., 1907. *Surgical Pathology.*

ROBERT H. RAY. Garrison, N. D.
M. D., Med.-Chirurgical Coll. (Phila.), 1900. *Medicine.*

J. ULLMAN REAVES. Anniston, Ala.
M. D., Tulane University, 1908. *Genito-Urinary Diseases.*

WILLIAM D. REDUS. Port Gibson, Miss.
M. D., Bellevue Hosp. Med. Coll., 1878. *Medicine.*

DANIEL T. SHEEHAN. Baltimore.
M. D., University of Dublin, 1897. *Surgical Pathology.*

EDWARD R. STITT. Washington, D. C.
M. D., University of Pennsylvania, 1889. *Medicine.*

UNDERGRADUATE STUDENTS

MATRICULATES

HERMAN S. APPLEBAUM. Baltimore. 32 *N. Eden St.*
Baltimore City College. *Group V.* Professor Wilson, *Adviser.*

DONALD KNIPP BELT. Baltimore. 613 *Reservoir St.*
Baltimore City College. *Group V.* Professor Armstrong, *Adviser.*

BERTRAM BENEDICT. Baltimore. 2409 *Madison Av.*
Baltimore City College. *Group III.* Professor C. M. Andrews, *Adviser.*

LINGURN BURKHEAD BOBBITT. Baltimore. 706 *E. Twentieth St.*
Baltimore City College. *Group I.* Professor Mustard, *Adviser.*

WILLIAM NORMAN BROWN. Baltimore. 1125 *Harlem Av.*
Hiram College. *Group I.* Dr. Roulston, *Adviser.*

LESLIE HEPBURN BUCKLER. Baltimore. *The Severn.*
Boys' Latin School. *Group II.* Professor Armstrong, *Adviser.*

HARRY CLARK BURGAN. Baltimore. 509 *New Boundary Av.*
Mr. Wolfe's School; LL. B., University of Maryland, 1905. *Group III.* Professor Vincent, *Adviser.*

JOHN KUPER BURGAN. Baltimore. 509 *New Boundary Av.*
Mr. Wolfe's School. *Group III.* Professor Vincent, *Adviser.*

SAMUEL MOSES BURKA. Baltimore. 1009 *Pennsylvania Av.*
Baltimore City College. *Group V.* Professor Ogden, *Adviser.*

JOHN DUDLEY CARROLL. Baltimore. 1700 *N. Charles St.*
Mr. Wolfe's School. *Group IV.* Dr. Coble, *Adviser.*

PAUL OWENS CARTER. Baltimore. 756 *W. Fayette St.*
Baltimore City College. *Group V.* Professor Watson, *Adviser.*

BERTRAM HARRY CATZEN. Baltimore. 1626 *Madison Av.*
The Deichmann School. *Group III.* Professor Ballagh, *Adviser.*

PETER CORBIN CHAMBLISS. Baltimore. 1415 *Linden Av.*
The Deichmann School. *Group V.* Professor Watson, *Adviser.*

EDMUND BRODIE CLARY. Baltimore. 1221 *Madison Av.*
Baltimore City College. *Group V.* Professor Mathews, *Adviser.*

MAURICE HENRY COBLENTZ. Baltimore. 410 *N. Calhoun St.*
Baltimore City College. *Group I.* Professor Mustard, *Adviser.*

HARRY NORMAN COLE. Richmond, Va. 1714 *McCulloh St.*
Baltimore City College. *Group III.* Professor Greene, *Adviser.*

JAMES JOHNSON CORNER, JR. Baltimore. 202 *E. Chase St.*
Country School for Boys. *Group III.* Professor Mustard, *Adviser.*

ALLEN DICKEY. Baltimore. 603 *Cathedral* St.
University School. *Group III.* Professor Ballagh, *Adviser.*

HARRY STANLEY DICKEY. Baltimore. 603 *Cathedral St.*
University School. *Group V.* Dr. Shaw, *Adviser.*

JOHN SHARPE DICKINSON. Baltimore County. *Roland Park.*
Boys' Latin School. *Group I.* Professor Miller, *Adviser.*

EDMOND SHEPPARD DONOHO. Baltimore. 920 *W. North Av.*
Baltimore City College. *Group III.* Dr. Magoffin, *Adviser.*

OTIS HERBERT DRAPER. Baltimore County. *Brooklandville.*
St. John's College. *Group III.* Professor Barnett, *Adviser.*

SYDNEY DUNHAM DYER. Washington, D. C. *Central Y. M. C. A.*
Yale College. *Group I.* Professor Miller, *Adviser.*

JAMES W. EASTER. Baltimore County. *Owings Mills.*
Boys' Latin School. *Group IV.* Professor Ames, *Adviser.*

CHARLES ELLIS ELLICOTT, JR. Baltimore County. *Melvale.*
Baltimore City College. *Group IV.* Professor Hulburt, *Adviser.*

DANIEL STANLEY ELLIOTT. Baltimore. 1427 *William St.*
Baltimore City College. *Group IV.* Professor Coble, *Adviser.*

EDWIN LOUIS FREDERICK. Baltimore County.
Baltimore City College. *Group V.* Dr. Gilpin, *Adviser.*
Rolling Rd., Catonsville.

RAYMOND FON DERSMITH GABLE. York, Pa. 2619 *St. Paul St.*
University of Pennsylvania. *Group II.* Professor Greene, *Adviser.*

GEORGE WILLIAM GAIL. Baltimore. *Pimlico Road.*
Jefferson School. *Group IV.* Professor Coble, *Adviser.*

CHARLES LELAND GETZ. Baltimore. 1111 *W. Lanvale St.*
Baltimore City College. *Group III.* Dr. Magoffin, *Adviser.*

GEORGE MARTIN GILLET, JR. Baltimore. 219 *W. Monument St.*
Baltimore City College. *Group III.* Dr. Magoffin, *Adviser.*

ALBERT ROLAND GMINDER. Baltimore. 607 *Lennox St.*
Baltimore City College. *Group II.* Dr. Boulston, *Adviser.*

CALVIN HOOKER GODDARD. Baltimore. *The Albion.*
Boys' Latin School. *Group IV.* Professor Coble, *Adviser.*

ARTHUR FEDDEMAN GORTON. Baltimore. 2403 *Garrison Av.*
Baltimore City College. *Group V.* Dr. Coble, *Adviser.*

ELMER LEWIS GREENSFELDER. Baltimore. 1811 *Eutaw Place.*
Baltimore City College. *Group V.* Dr. Gilpin, *Adviser.*

WALTER EDWARD GREMPLER. Baltimore. 517 *Scott St.*
Baltimore City College. *Group V.* Professor Wilson, *Adviser.*

WILLIAM ARTHUR GRUSE. Wheeling, W. Va. 621 *St. Paul St.*
Mt. St. Joseph's College. *Group V.* Dr. Gilpin, *Adviser.*

GEORGE E. W. HARDY, JR. Baltimore. 3045 *W. North Av.*
Baltimore City College. *Group V.* Professor Renouf, *Adviser.*

WILLIAM EDWARD HARRISON, JR. Baltimore. 2121 *W. North Av.*
Baltimore City College. *Group III.* Professor Ballagh, *Adviser.*

HAROLD HAUPT. Baltimore. 2511 *Madison Av.*
Boys' Latin School. *Group IV.* Professor Coble, *Adviser.*

NATHAN WILLIAMS HAYNES. New York, N. Y. 1220 *Mt. Royal Av.*
Cutler School (N. Y.); Private Instruction. *Group V.* Dr. French, *Adviser.*

HAROLD BROOKS HERING. Baltimore. 416 *Mosher St.*
Baltimore City College. *Group II.* Dr. Kurrelmeyer, *Adviser.*

HARRY HANSON HOEN. Baltimore. 801 *Gorsuch Av.*
The Deichmann School. *Group V.* Professor Marden, *Adviser.*

JAMES EUGENE LEVERING HOLMES. Baltimore. 1308 *Linden Av.*
Country School for Boys. *Group I.* Professor Wilson, *Adviser.*

MARION BYRD HOPKINS. Baltimore. 1531 *Linden Av.*
Baltimore City College. *Group V.* Dr. Cowles, *Adviser.*

JOHN GARDINER HUCK. Baltimore. 647 *W. Lafayette Av.*
The Deichmann School. *Group V.* Professor E. A. Andrews, *Adviser.*

EDWARD OLSON HULBURT. Baltimore Co. *Embla Park.*
Jefferson School. *Group IV.* Professor Bliss, *Adviser.*

FERDINAND CHRISTIAN KUEHN. Baltimore 811 *W. Saratoga St.*
Baltimore City College. *Group I.* Professor Spieker, *Adviser.*

FREDERIC COLLINS LEE. Baltimore Co. 15 *E. Lafayette Av.*
Loyola College. *Group V.* Professor Brush, *Adviser.*

CARL HENRY LEVAN Baltimore. 306 *E. 23d St.*
Baltimore City College. *Group II.* Professor Greene, *Adviser.*

BENJAMIN EVERETT LEWIS. Tallahassee, Fla. 1901 *N. Charles St.*
University School. *Group II.* Professor Marden, *Adviser.*

HARRY LINDEN. Baltimore. 1438 *E. Baltimore St.*
Baltimore City College. *Group V.* Professor Renouf, *Adviser.*

HOWARD HUNTLEY LLOYD. Baltimore. 445 *E. Lanvale St.*
Baltimore City College. *Group V.* Dr. French, *Adviser.*

THEODORE GERHARD LÜRMAN, JR. Baltimore Co. 808 *St. Paul St.*
The Deichmann School. *Group V.* Professor Renouf, *Adviser.*

HERTEL PHILIP MAKEL. Baltimore. 411 *N. Luzerne St.*
Baltimore City College. *Group V.* Dr. Cowles, *Adviser.*

WICKLIFF ORNDORF MANGER. Baltimore. 1002 *Edmondson Av.*
The Deichmann School. *Group V.* Professor Greene, *Adviser.*

JULIAN HOWARD MARSHALL. Baltimore Co. *Pikesville.*
Country School for Boys. *Group II.* Professor Ames, *Adviser.*

EDWARD DUFFIELD MARTIN. Baltimore. 900 *St. Paul St.*
University School. *Group III.* Professor Brush, *Adviser.*

JOHN CURLETT MARTIN. Baltimore. 1720 *St. Paul St.*
Baltimore City College. *Group I.* Professor Smith, *Adviser.*

NORMAN CLYDE MARVEL. Talbot County. 728 *Dolphin St.*
The Deichmann School. *Group V.* Professor Swarts, *Adviser.*

RICHARD SNOWDEN McCABE. Baltimore. 2126 *St. Paul St.*
University School. *Group III.* Professor Vincent, *Adviser.*

SAMUEL SEYMOUR MERRICK. Baltimore. 824 *Park Av.*
Boys' Latin School. *Group III.* Dr. Roulston, *Adviser.*

AUSTIN RALPH MIDDLETON. Baltimore. 334 *Elm Av., Hampden.*
Baltimore City College. *Group V.* Professor E. A. Andrews, *Adviser.*

ELLIS MILLER. Baltimore. 1641 *Pennsylvania Av.*
Baltimore City College. *Group V.* Dr. Shaw, *Adviser.*

LUTHER BONNET MILLER. Baltimore. *Irvington.*
Baltimore City College. *Group III.* Professor Ogden, *Adviser.*

ROBERT EDWIN MILLER. Baltimore. 1818 *Pennsylvania Av.*
Dickinson College. *Group I.* Professor Smith, *Adviser.*

RICHARD NICHOLAS MULLIKIN. Baltimore. 611 *W. North Av.*
Baltimore City College. *Group V.* Professor E. A. Andrews, *Adviser.*

FRANCIS KEY MURRAY. Howard County. *Elk Ridge.*
Country School for Boys. *Group I.* Professor Brush, *Adviser.*

JOHN GARDNER MURRAY, JR. Baltimore. *Charles and 37th Sts.*
Boys' Latin School. *Group V.* Professor Ames, *Adviser.*

HARVEY HOUSTON MUSSER. Akron, O. 136 *Richmond St.*
Mohegan Lake School. *Group V.* Professor Renouf, *Adviser.*

EMORY HAMILTON NILES. Baltimore. *Walbrook.*
Baltimore Polytechnic Institute. *Group II.* Professor Brush, *Adviser.*

EDWARD NOVAK. Baltimore. 2003 *Jefferson St.*
The Deichmann School. *Group V.* Professor E. A. Andrews, *Adviser.*

MAX G. PAULUS. Baltimore. 1538 *N. Broadway.*
Baltimore City College. *Group V.* Professor E. A. Andrews, *Adviser.*

ERNEST JOHN PIEPER. Baltimore. 1 *W. Erdman Av.*
Baltimore City College. *Group V.* Dr. Cowles, *Adviser.*

CLARENCE CHIPLEY PORTER. Baltimore. 2308 *Parkwood Av.*
Baltimore City College. *Group V.* Professor Swartz, *Adviser.*

GEORGE HEINRICHS PRESTON. Baltimore. 819 *N. Charles St.*
Boys' Latin School. *Group V.* Professor E. A. Andrews, *Adviser.*

THOMAS BROOKE PRICE. Charleston, W. Va. *Central Y. M. C. A.*
Hampden-Sidney College. *Group IV.* Professor Marden, *Adviser.*

ALFRED MAGILL RANDOLPH, 3d. Baltimore. 816 *Park Av.*
Jefferson School. *Group IV.* Professor Hulburt, *Adviser.*

WILMER RAY. Baltimore. 1724 *McCulloh St.*
Baltimore City College. *Group V.* Professor Swartz, *Adviser.*

JOHN BERNARD REESIDE, JR. Baltimore. 1001 *W. Cross St.*
Baltimore City College. *Group V.* Professor E. A. Andrews, *Adviser.*

J EDWARD RICHARDSON, JR. Baltimore County. *Park Heights Av.*
Baltimore City College. *Group V.* Professor Mathews, *Adviser.*

AARON ROBINSON. Baltimore. 1100 *E. Fayette St.*
Baltimore City College. *Group V.* Professor Hulburt, *Adviser.*

EARLE LINDSAY ROGERS. Baltimore. 516 *Roland Av.*
Baltimore City College. *Group III.* Professor C. M. Andrews, *Adviser.*

MOSES WIESENFELD ROSENFELD. Baltimore. 1720 *Eutaw Place.*
Friends' School. *Group III.* Professor H. Wood, *Adviser.*

GILBERT WHITE ROSENTHAL. Baltimore. 815 *Newington Av.*
Baltimore City College. *Group III.* Professor Barnett, *Adviser.*

GEORGE YEISLEY RUSK. Baltimore. 2000 *E. Baltimore St.*
Baltimore City College. *Group III.* Professor Ballagh, *Adviser.*

AUGUSTUS EDMUND SATTLER. Baltimore. 2519 *N. Charles St.*
Country School for Boys. *Group V.* Professor Ames, *Adviser.*

GERHARD LAUTS SCHMEISSER. Baltimore. 2401 *Eutaw Place.*
Friends' School. *Group V.* Professor Ogden, *Adviser.*

OTTO KARL SCHMIED. Baltimore. 224 *Aisquith St.*
Baltimore City College. *Group II.* Professor H. Wood, *Adviser.*

GEORGE J. SCHULZ. Baltimore. 410 *N. Eden St.*
The Deichmann School. *Group V.* Professor Watson, *Adviser.*

JULIAN DUCKER SEARS. Baltimore. 658 *W. Franklin St.*
Friends' School. *Group V.* Dr. Gilpin, *Adviser.*

EDWARD HENRY SEHRT. Baltimore. 227 *Eastern Av. Ext.*
Baltimore City College. *Group II.* Dr. Kurrelmeyer, *Adviser.*

CHARLES HENRY SIMON. Baltimore. 1302 *Madison Av.*
Jefferson School. *Group V.* Dr. Gilpin, *Adviser.*

ADOLPH LOUIS TAYLOR STARCK. Baltimore. 1820 *Edmondson Av.*
The Deichmann School. *Group V.* Professor Swartz, *Adviser.*

WALTER LINS STECKEL. Baltimore. 1815 *St. Paul St.*
Boys' Latin School. *Group IV.* Professor Whitehead, *Adviser.*

HYLAND PRICE STEWART, JR. Baltimore. 2213 *St. Paul St.*
Baltimore City College. *Group III.* Professor Vincent, *Adviser.*

JOSEPH NOBLE STOCKETT, JR. Baltimore. 1604 *John St.*
Baltimore City College. *Group V.* Professor Ames, *Adviser.*

EDWARD CARROLL STOLLENWERCK. Baltimore. 21 *E. Lanvale St.*
Boys' Latin School. *Group III.* Professor Mustard, *Adviser.*

ALAN CALLENDER SUTTON. Baltimore. 2321 *Callow Av.*
Baltimore City College. *Group V.* Dr. French, *Adviser.*

GASTON ISON SWEITZER. Glen Rock, Pa. 1714 *McCulloh St.*
York Collegiate Institute. *Group II.* Professor Wilson, *Adviser.*

GEORGE HAMILTON SWIFT. Baltimore. 1325 *Madison Av.*
Northwestern University. *Group III.* Professor Barnett, *Adviser.*

BENJAMIN TAPPAN. Baltimore. 1419 *Bolton St.*
Jefferson School. *Group I.* Professor Smith, *Adviser.*

GEORGE PETER THOMAS. Baltimore. 1508 *Park Av.*
Boys' Latin School. *Group II.* Professor Marden, *Adviser.*

CHARLES HENRY TILGHMAN. Talbot County. 36 *W. Biddle St.*
The Deichmann School. *Group V.* Professor Renouf, *Adviser.*

GABRIEL H. TODES. Baltimore. 2304 *Callow Av.*
Baltimore City College. *Group III.* Professor Miller, *Adviser.*

MYRON GRIFFIN TULL. Baltimore. 313 *E. Lanvale St.*
Baltimore City College. *Group V.* Dr. French, *Adviser.*

JOHN EARLE UHLER. Baltimore. 106 *N. Greene St.*
Baltimore City College. *Group II.* Professor Armstrong, *Adviser.*

GEORGE ROSS VEAZEY. Baltimore. 2907 *St. Paul St.*
Country School for Boys. *Group I.* Professor Spieker, *Adviser.*

AUGUST VOGELER. Baltimore Co. *Catonsville.*
Mr. Wolfe's School. *Group III.* Professor Smith, *Adviser.*

HARRY MILTON WAGNER, JR. Baltimore. 1809 *Bolton St.*
Baltimore City College. *Group V.* Dr. Kurrelmeyer, *Adviser.*

BENJAMIN FRANKLIN WALLIS. Baltimore. 604 *W. North Av.*
University School. *Group V.* Dr. Gilpin, *Adviser.*

CHARLES LUTHER WARNER. Baltimore. *Forest Park.*
Baltimore City College. *Group V.* Dr. Cowles, *Adviser.*

Moses Harold Waxman. Baltimore. 2902 *Park Heights Av.*
Baltimore City College. *Group V.* Professor Balliagh, *Adviser.*

Dudley Russell Weer, Jr. Baltimore. 1741 *Park Av.*
The Deichmann School. *Group III.* Professor C. M. Andrews, *Adviser.*

William Oswald Weyforth, Jr. Baltimore. 2329 *Linden Av.*
Baltimore City College. *Group III.* Professor Barnett, *Adviser.*

Edwin Charles White. Baltimore. 1620 *Madison Av.*
Baltimore City College. *Group V.* Dr. Kuerschmeyer, *Adviser.*

Theodore Sinclair Will. Baltimore. 1824 *Edmondson Av.*
The Deichmann School. *Group I.* Professor Spicher, *Adviser.*

James Reaney Wolfe. Baltimore. 1931 *St. Paul St.*
Baltimore City College. *Group III.* Professor Barnett, *Adviser.*

Abel Wolman. Baltimore. 129 *N. Broadway.*
Baltimore City College. *Group V.* Professor Mathews, *Adviser.*

Leo Wolman. Baltimore. 129 *N. Broadway.*
Baltimore City College. *Group V.* Dr. French, *Adviser.*

Alan Churchill Woods. Baltimore. 842 *Park Av.*
Boys' Latin School. *Group V.* Professor Whitehead, *Adviser.*

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Candidates for Matriculation

Leo Brady. Baltimore. 804 *St. Paul St.*
Boys' Latin School. *Group III.* Dr. Magoffin, *Adviser.*

Louis Max Brodie. Baltimore. 2337 *Druid Hill Av.*
Baltimore City College. *Group V.* Dr. Boulston, *Adviser.*

Julian Gold Carter. Baltimore. 2900 *N. Calvert St.*
University School. *Group III.* Professor Brush, *Adviser.*

Eldridge Reeder Christhilf. Baltimore. 712 *N. Howard St.*
Baltimore City College. *Group III.* Professor Armstrong, *Adviser.*

Robert Eugene Clift. Baltimore. 1902 *Mt. Royal Terr.*
Country School for Boys. *Group III.* Professor Halburt, *Adviser.*

Hamilton Graham DuBois. Baltimore. 1423 *Park Av.*
Baltimore City College. *Group III.* Professor H. Wood, *Adviser.*

Edwin Maurice Fleischmann. Baltimore. 1508 *Bolton St.*
Baltimore City College. *Group V.* Professor Wilson, *Adviser.*

Lewis Smyser Forney. York, Pa. 416 *W. Hoffman St.*
Lafayette College. *Group III.* Professor Vincent, *Adviser.*

ALFRED CUMMINS HATCH. Baltimore County. *Lutherville.*
Baltimore Polytechnic Institute; LL. B., University of Maryland. *Group I.* Professor Spieker, *Adviser.*

JOHN MALLORY HOLMES. Baltimore. 1714 *McCulloh St.*
Baltimore City College, 1904. *Group III.* Professor Griffin, *Adviser.*

LOUIS LLEWELLYN JACOBS. Norfolk, Va. 812 *W. Lombard St.*
Norfolk High School. *Group V.* Dr. Roulston, *Adviser.*

DUDLEY DAY LAWTON. Baltimore. 1605 *Park Av.*
Baltimore City College. *Group V.* Professor Swarts, *Adviser.*

NORMAN FIERY LECRON. Baltimore. 1410 *Mt. Royal Av.*
The Deichmann School. *Group V.* Professor Swarts, *Adviser.*

JAMES HENRY MARSTON, JR. Baltimore. 1326 *W. Lanvale St.*
Boys' Latin School. *Group V.* Professor E. A. Andrews, *Adviser.*

LYNN WERSTER MEEKINS. Baltimore. 2418 *N. Charles St.*
Friends' School. *Group III.* Professor C. M. Andrews, *Adviser.*

KARL MELAMET. Baltimore. 1914 *McCulloh St.*
Baltimore City College. *Group.* Professor Armstrong, *Adviser.*

GEORGE CLARKE OBER, JR. Washington, D. C. 1913 *W. Franklin St.*
Washington Central High School. *Group V.* Professor Watson, *Adviser.*

JOHN CARL OPPER. Baltimore. 941 *W. Fayette St.*
Baltimore City College. *Group I.* Professor Smith, *Adviser.*

CHARLES LEE PACKARD. Baltimore. 806 *St. Paul St.*
Boys' Latin School. *Group III.* Professor C. M. Andrews, *Adviser.*

JOHN ALEXANDER DUSHANE PENNIMAN. Baltimore Co.
Boys' Latin School. *Group III.* Professor Mustard, *Adviser.*
Roland Park.

HARRY SCHAPIRO. Baltimore. 1804 *Fairmount Av.*
Baltimore City College. *Group V.* Professor H. Wood, *Adviser.*

JAMES ALFRED CURTIS WILSON. Baltimore. 1006 *N. Calvert St.*
Boys' Latin School. *Group V.* Professor Bliss, *Adviser.*

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Special Students

Wesley Baker. Walkerton, Ont. 808 *Park Av.*
University of Toronto. *Greek and Hebrew.*

Frank Beckler. Baltimore. 1935 *Park Av.*
The Deichmann School. *Group III.* Professor Ogden, *Adviser.*

Robert Warren Bocslough. Aurora, Ill. 1416 *McCulloh St.*
Armour Institute of Technology. *Group IV.* Professor Hulburt, *Adviser.*

Emmett Bell Bryan. Baltimore. 231 *E. Lafayette Av.*
Washington College (Md.), *Physics and Chemistry.* Professor Amos, *Adviser.*

Harold Bernard Disney. Baltimore. 1060 *Hopkins Av. W.*
Baltimore City College. *Group V.* Dr. Shaw, *Adviser.*

Bernard Tenney Ellis. Anne Arundel Co. *Linthicum.*
Baltimore City College. *Group V.* Professor H. Wood, *Adviser.*

John S. Fulton, Jr. Baltimore. 2211 *St. Paul St.*
Baltimore City College. *Group IV.* Professor Amos, *Adviser.*

George Harvey Hayne. Baltimore. 707 *Newington Av.*
The Deichmann School. *Group III.* Professor Swartz, *Adviser.*

Frank Merrill Hildebrandt. Baltimore. 516 *N. Stricker St.*
Baltimore Polytechnic Institute. *Group III.* Professor Wilson, *Adviser.*

Harry Homlet. Baltimore. 116 *Park Av.*
Baltimore City College. *Group III.* Professor Vincent, *Adviser.*

George Edward Pickering. Baltimore. 549 *N. Fulton Av.*
Baltimore City College. *Group III.* Professor Hulburt, *Adviser.*

Alexander Hanson Robertson, Jr. Baltimore. 1112 *Cathedral St.*
University of Virginia. *Mathematics and English.*

Harry Bosley Siegmund. Baltimore. 1918 *Wilkens Av.*
Baltimore Polytechnic Institute. *Group III.* Professor Whitehead, *Adviser.*

Wilmer Berry Waters. Baltimore. *The Preston.*
University School. *Group IV.* Professor Whitehead, *Adviser.*

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COLLEGE COURSES FOR TEACHERS

HATTIE JOSEPHINE ADAMS. Baltimore. 266 *Old York Road.*
Eastern High School, 1891. *Latin.*

GRACE AGUILAR ADLER. Baltimore. 1607 *Linden Av.*
Western High School, 1897. *Mathematics.*

DELIA ROBINSON ALFORD. Baltimore. 315 *N. Fulton Av.*
Western High School, 1906. *Mathematics.*

NELLIE ARMIGER. Baltimore. 1231 *Harford Av.*
Eastern High School, 1889. *English Composition.*

FLORENCE IRENE ARNOLD. Baltimore. 2053 *Woodberry Av.*
Western High School, 1900. *English Literature.*

CARRIE EMMA BAKER. Baltimore. 742 *E. Preston St.*
Western High School, 1881. *English Literature.*

FLORENCE EILAU BAMBERGER. Baltimore. 212 *Laurens St.*
Western High School, 1895. *Biology.*

EMILY OLIVER BARTON. Baltimore. 12 *E. 22nd St.*
Eastern High School. *English Composition.*

CARRIE EVELYN BELL. Baltimore. 508 *Franklin Terr.*
Eastern High School, 1902. *English Literature.*

LILLIAN MAY BLACK. Baltimore. 11 *N. Collington Av.*
Eastern High School, 1894. *English Literature.*

GERTRUDE LEE BOONE. Baltimore. 2922 *Parkwood Av.*
Western High School, 1894. *English Composition; History.*

JESSIE BOUSTEAD. Baltimore. 750 *Reservoir St.*
Western High School, 1900. *English Composition.*

VIRGINIA BERKLEY BOWIE. Baltimore. 811 *Hamilton Terr.*
English Composition.

SARAH CATHERINE BROOKS. Baltimore County. *Catonsville.*
Northern Illinois Normal University. *Biology.*

CLARA MAUDE BROWN. Baltimore County. *Roland Park.*
Maryland State Normal School, 1890. *English Literature.*

AGNES EMILIE BUCHHOLZ. Baltimore. 623 *N. Fulton Av.*
Western High School. *German.*

MARGARET BLANCHE CARMINE. Baltimore. 1101 *McCulloh St.*
A. B., Woman's College of Baltimore, 1901. *English Literature.*

MARIE LOUISE HOFMANN. Baltimore. 1023 *W. Lanvale St.*
English Composition.

MARY ELIZABETH HOLDEN. Baltimore. 616 *N. Arlington Av.*
A. B., Woman's College of Baltimore, 1898. *Mathematics.*

SUSIE HARMAN HOLLSTEIN. Baltimore. 2929 *N. Calvert St.*
Western High School, 1893. *History.*

BESSIE KLINESMITH. Baltimore. 1615 *N. Broadway.*
Eastern High School, 1899. *English Composition.*

GRACE AMANDA KRAMER. Baltimore. 319 *E. 25th St.*
Western High School, 1895. *Mathematics.*

MARGARET THERESE KRATZ. Baltimore. 521 *W. Barre St.*
Columbia University Summer School. *Mathematics.*

FLORENCE RAYMOND LANE. Baltimore. 416 *E. 22d St.*
Western High School, 1900. *Mathematics.*

FLORENCE MAY LAYMAN. Baltimore. 3724 *Park Heights Av.*
Maryland State Normal School, 1892. *English Composition.*

EMMA HASELTINE MECHEM. Baltimore. 1906 *Park Av.*
Western High School, 1886. *Mathematics.*

ANNIE GERTRUDE MELVIN. Baltimore. 711 *N. Fremont Av.*
Maryland State Normal School, 1899. *English Composition.*

ANNIE CATHERINE MEUSHAW. Baltimore County. *Govans.*
Western High School, 1879. *English Composition.*

GRACE MARGARET MORROW. Baltimore. 1724 *St. Paul St.*
Eastern High School, 1893. *English Composition.*

MAY RAWLINGS MUFFLY. Baltimore. 2308 *Roslyn Av.*
Thomasville Female College (N. C.) *English Literature.*

MARY TERESA MURPHY Howard County. *Ellicott City.*
Maryland State Normal School, 1877. *Mathematics.*

ELIZABETH NICKEL. Baltimore. 1029 *Bennet Pl.*
Chicago, Columbia, and Harvard Summer Schools. *German.*

MARGARET ADELAIDE PFEIFFER. Baltimore. 1014 *W. Lanvale St.*
A. B., Western Maryland College, 1894. *History.*

MARY ALICE PIERCE. Baltimore. 302 *Laurens St.*
Maryland State Normal School. *English Composition.*

SARAH LUCY ROCHE. Baltimore. 1815 *E. Lombard St.*
Eastern High School, 1882. *English Composition.*

EDNA ROTHHOLZ. Baltimore. 2108 *Bolton St.*
Woman's College of Baltimore. *French.*

CECELIA MARY SCHANK. Baltimore. 3702 *Dillon St.*
Maryland State Normal School, 1902. *English Composition.*

EMMA OSANNE SHARP. Baltimore. 1733 *Lamont Av.*
Eastern High School, 1899. *German.*

MARIE EMILIE STAIR. Baltimore. 1621 *W. North Av.*
Western High School, 1896. *English Composition.*

ETHEL LEE STEWART. Baltimore. 114 *W. 23rd St.*
Maryland State Normal School, 1884. *English Literature.*

MABEL BELMONTE STI NON. Baltimore. 1631 *E. Oliver St.*
Eastern High School, 1896. *English Composition.*

MINNIE HARRISON STRAYER. Baltimore. 14 *E. Franklin St.*
University of Virginia (Summer School). *English Composition.*

CARRIE MYERS SUMWALT. Baltimore. 121 *W. 24th St.*
Western High School, 1877. *English Composition.*

MAY ELIZABETH TOLSON. Baltimore. 340 *Elm Av.*
Western High School, 1902. *English Literature.*

FLORENCE DIDIER WALLACE. Baltimore. 1031 *Edmondson Av.*
Teachers College, Columbia University. *History.*

ANNABEL WHITE. Baltimore. 2213 *Oak St.*
Western High School, 1902. *English Literature.*

ELIZABETH GENEVIEVE WHITE. Baltimore. 2213 *Oak St.*
Western High School, 1900. *English Literature.*

ANNIE CULLUM WILLIAMS. Baltimore. 254 *Carroll St.*
Maryland State Normal School, 1889. *English Composition.*

AGNES MABEL WORTHINGTON. Baltimore. 817 *N. Carey St.*
Western High School, 1904. *English Composition.*

ELIZABETH FIELD YARDLEY. Baltimore. 1315 *Park Av.*
Western High School, 1900. *English Composition; Latin.*

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GOVERNMENT OF THE JOHNS HOPKINS UNIVERSITY

FOR THE YEAR 1909-10

TRUSTEES

The Trustees are the ultimate source of authority in all matters pertaining to the University. They act collectively, through the standing committees named on page 9, and through the President of the University.

PRESIDENT

Ira Remsen

The duties of this office were thus defined by the Trustees, September 14, 1876:

The President of the University is the authorized means of communication between the Board and the various officers of instruction and administration employed in the University; it shall be his duty to consult with the Professors in respect to the development of their various departments and the general interests of the University; to determine the appropriate duties of the Associates and Fellows; and to exercise such superintendence over the buildings, apparatus, books and other property as will insure their protection and appropriate use. In respect to these matters and all others which concern the welfare of the University, he shall consult frequently with the Executive Committee, and he shall attend the meetings of the Board of Trustees. Purchases, alterations, repairs, and other incidental expenses must not be ordered by any of the officers of the University without his previous assent, or the expressed authority of the Board.

By resolution of the Trustees, May 2, 1892, the President of the University was constituted a member *ex officio* of the Board, and also *ex officio* is a member of the Executive Committee.

ACADEMIC COUNCIL

Ira Remsen (*Pres.*)	E. H. Griffin (*Sec'y.*)	J. S. Ames
B. L. Gildersleeve	A. M. Elliott	Maurice Bloomfield
Paul Haupt	Henry Wood	J. W. Bright
W. H. Welch	W. B. Clark	

By authority of the Trustees, the Academic Council (now consisting of the President and ten Professors) has met since the organization of the University to guide the various departments of study, to select the Fellows, and to act upon such other matters as may be brought before them.

BOARD OF UNIVERSITY STUDIES

Ira Remsen (*Pres.*)	R. W. Wood	Christopher Johnston
B. L. Gildersleeve	K. F. Smith	E. C. Armstrong
Paul Haupt	J. H. Hollander	B. E. Livingston
W. H. Welch	E. B. Mathews	E. H. Spieker
E. H. Griffin	H. C. Jones	C. W. E. Miller
Maurice Bloomfield	J. M. Vincent	Philip Ogden
A. M. Elliott	C. C. Marden	J. B. Whitehead
H. N. Morse	W. W. Willoughby	J. C. Ballagh
Henry Wood	C. M. Andrews	C. Grave
W. H. Howell	D. S. Johnson	G. E. Barnett
J. W. Bright	H. L. Wilson	S. F. Acree
W. Hand Browne	Herman Collitz	M. P. Brush
W. B. Clark	H. S. Jennings	D. M. Robinson
J. S. Ames	E. F. Buchner	A. B. Coble
Frank Morley	J. B. Watson	M. L. Raney
H. F. Reid	E. A. Andrews	

By request of the Academic Council (October 8, 1883), this Board, consisting of the President, thirty-four Professors and twelve Associate Professors, has charge of the arrangements for the instruction of graduate students, and of the examinations for the degree of Doctor of Philosophy.

ADVISORY BOARD OF THE MEDICAL FACULTY

Ira Remsen (*Pres.*)	H. A. Kelly	J. W. Williams
W. H. Welch	F. P. Mall	L. F. Barker
H. M. Hurd	J. J. Abel	C. von Pirquet
W. S. Halsted	W. H. Howell (*Dean*)	

This Board was constituted by resolution of the Trustees (April 3, 1893), "to report to the Trustees from time to time their suggestions, and to prepare and carry forward the proper arrangements for the instruction and graduation of medical students."

BOARD OF MEDICAL STUDIES

Ira Remsen (*Pres.*)	C. von Pirquet	J. C. Bloodgood
W. H. Welch	W. D. Booker	Harvey Cushing
H. M. Hurd	J. N. Mackenzie	H. H. Young
H. A. Kelly	Samuel Theobald	W. H. Lewis
W. S. Halsted	H. M. Thomas	F. R. Sabin
J. J. Abel	J. W. Lord	Thomas McCrae
W. H. Howell	T. C. Gilchrist	W. W. Ford
F. P. Mall	H. J. Berkley	M. Brödel
J. W. Williams	J. M. T. Finney	J. M. Slemons
L. F. Barker	W. W. Russell	F. R. Smith
W. S. Thayer	T. S. Cullen	G. L. Hunner
Walter Jones	R. L. Randolph	Samuel Amberg
A. Meyer	T. B. Futcher	H. O. Reik

L. P. Hamburger	F. H. Baetjer	D. R. Hooker
T. R. Brown	E. Hurdon	R. S. Morris
W. S. Baer	L. V. Hamman	C. Voegtlin
George Walker	G. H. Whipple	C. F. Burnam
R. H. Follis	C. B. Farrar	J. H. M. Knox
T. R. Boggs	A. D. Hirschfelder	C. D. Snyder

This Board was created by resolution of the Trustees, January 6, 1902. It consists of the professors, clinical professors, associate professors, and associates in the medical department, and its functions are especially the consideration of the courses of instruction.

BOARD OF COLLEGIATE STUDIES

Ira Remsen (*Pres.*)	K. F. Smith	E. H. Spieker
E. H. Griffin (*Dean*)	J. H. Hollander	(*Sec'y.*)
A. M. Elliott	E. B. Mathews	J. C. Ballagh
H. N. Morse	J. M. Vincent	G. E. Barnett
Henry Wood	C. C. Marden	C. K. Swartz
Edward Renouf	C. M. Andrews	M. P. Brush
W. Hand Browne	H. L. Wilson	A. B. Coble
H. E. Greene	W. P. Mustard	J. E. Gilpin
L. S. Hulburt	E. H. Buchner	J. C. French
J. S. Ames	J. B. Watson	R. T. Abercrombie
W. J. A. Bliss	E. A. Andrews	R. B. Roulston

By request of the Academic Council (May 13, 1892), the Board of Collegiate Studies, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduate and special students, and conducts the examinations for matriculation and for the baccalaureate degree, under the direction of the Academic Council. The other teachers of undergraduates may be called in from time to time to consult.

An Executive Committee acts for the Board on all routine matters, and now consists of E. H. Griffin, E. Renouf, E. H. Spieker, and R. T. Abercrombie.

COMMITTEE ON THE LIBRARY

Ira Remsen (*Pres.*)	W. Hand Browne	W. W. Willoughby
B. L. Gildersleeve	E. B. Mathews	M. L. Raney (*Sec.*)

COMMITTEE ON THE GYMNASIUM

Ira Remsen (*Pres.*)	H. F. Reid	R. T. Abercrombie
E. Renouf		

ADVISORY BOARD OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION

Ira Remsen (*Pres.*) E. H. Griffin C. K. Swartz
Eugene Levering (*Sec'y.*)

OTHER OFFICERS

TREASURER OF THE UNIVERSITY

Charles J. Meyer

REGISTRAR OF THE UNIVERSITY

Thomas R. Ball

REGISTRAR OF THE MEDICAL SCHOOL

George J. Coy

SUMMARY

Faculty, 1909-10

President and Professors,	53
Clinical Professors,	7
Associate Professors,	27
Associates,	35
Instructors and Assistants,	69
	191
Lecturers for the year,	27

Students Enrolled, 1909-10

Graduate Students:		
Fellows by Courtesy,	16	
Fellows,	22	
Other Graduate Students in Philosophy,	106	
Attendants on Single Courses	44	
Candidates for the degree of M. D.,	334	
Physicians attending Special Courses,*	75	
		597
Undergraduates:		
Candidates for the degree of A. B.,	143	
Not Candidates for a degree,	14	
		157
Total,		754
Counted twice,		2
Attendants on College Courses for Teachers,		69

*Including 31 entering in 1909 after the issue of the last Register.

GEOGRAPHICAL DISTRIBUTION OF THE STUDENTS

Maryland (Baltimore, 232)	286	Tennessee,	5
Pennsylvania,	46	Arkansas,	4
Virginia,	45	Minnesota,	4
New York,	39	Montana,	4
District of Columbia,	20	Vermont,	4
Ohio,	20	Mississippi,	3
Texas,	18	Nebraska,	3
Connecticut,	17	North Dakota,	3
Massachusetts,	17	South Dakota,	3
North Carolina,	17	Kansas,	2
Georgia,	16	Michigan,	2
Kentucky,	15	New Hampshire	2
Missouri	15	New Mexico,	2
California,	14	Rhode Island,	2
Illinois,	12	Colorado,	1
Washington,	11	Delaware,	1
Indiana,	10	Oklahoma,	1
South Carolina,	10	Wyoming,	1
Alabama,	9	Canada,	9
West Virginia,	9	Australia,	1
Wisconsin,	9	Brazil,	1
New Jersey,	8	France,	1
Maine,	6	Japan,	1
Florida,	5	Roumania,	1
Iowa,	5	Scotland,	1
Louisiana,	5	South Africa,	1
Oregon,	5		

INSTITUTIONS IN WHICH THE STUDENTS WERE GRADUATED

Alabama Polytechnic Inst.,	1	Chicago, University of,	6
Alabama, University of,	3	Christian University,	1
Albany Med. College,	1	Clark College,	1
Albion College,	2	Clark University,	2
Allegheny College,	2	Coe College,	1
Alma College,	1	Colby College,	3
Amherst College,	3	Colgate University,	3
Arkansas, University of,	4	Columbia University,	4
Baker University,	1	Concordia College (Ind.),	1
Baltimore Medical Coll.,	6	Concordia Sem. (St. Louis),	1
Barnard College,	1	Cooper Medical Coll.,	1
Baylor University,	1	Cornell College,	1
Bellevue Hosp. Med. Coll.,	1	Cornell University,	1
Beloit College,	1	Dalhousie University,	1
Bowdoin College,	2	Dartmouth College,	4
Brown University,	2	Davidson College,	7
Bryn Mawr College,	4	De Pauw University,	1
Bucknell University,	1	Dickinson College,	4
Butler College,	1	Dublin, University of,	1
California, University of,	4	Earlham College,	1
Carleton College,	1	Elon College,	1
Catholic University,	3	Emory College,	4
Central University of Ky.,	7	Emory and Henry College,	3
Charleston, College of,	2	Florida State College,	1

Florida, University of,	1	Montana Agric. College,	1
Franklin and Marshall Coll.,	5	Morningside College,	1
Genl. Theol. Sem. (N. Y.),	1	Mt. Holyoke College,	2
Geneva College,	1	Mt. Morris College,	1
Georgetown College,	3	Mt. St. Joseph's College	1
Georgetown University,	1	Muhlenberg College,	2
George Washington Univ.,	1	Nashville, University of,	1
Georgia, University of,	10	Nebraska, University of,	2
Gettysburg Theol. Sem.,	2	New York University,	2
Göttingen, University of,	1	N. C. A. & M. College,	1
Grant University,	1	North Carolina, Univ. of,	4
Hahnemann Medical Coll., (Philadelphia)	2	North Dakota, Agric. Coll.,	1
Halle-Wittenberg, Univ. of,	1	Northwestern University	2
Hamilton College,	2	Oberlin College,	2
Hamline University,	1	Ohio Medical College,	3
Hampden-Sidney College,	2	Ohio State University,	3
Harvard University,	10	Ohio University,	1
Haverford College,	5	Ohio Wesleyan Univ.,	2
Heidelberg, University of,	2	Oregon, University of,	3
Hillsdale College,	1	Paris, University of,	1
Hiram College,	2	Pennsylvania College,	17
Hiwassee College,	1	Pennsylvania, Univ. of,	6
Holy Cross College,	1	Phys. & Surg. (Balt.), College of,	1
Howard University,	1	Phys. & Surg. (Chicago), College of,	2
Iowa State University,	2	Phys. & Surg. (New York), College of,	1
Johns Hopkins University,	74	Pomona College,	1
Kentucky University,	2	Princeton Theol. Sem.,	2
Kenyon College,	1	Princeton University,	15
Lafayette College,	2	Pulte Medical College,	1
Laval University,	1	Purdue University,	5
Lawrence University,	1	Queen's University (Ont.),	1
Lebanon Valley College,	1	Randolph-Macon College,	12
Leland Stanford Jr. Univ.,	12	Randolph-Macon Woman's College,	1
London, University of,	1	Richmond College,	7
Louisiana State Univ.,	2	Roanoke College,	4
Loyola College,	5	Rochester Theol. Seminary,	1
Marietta College,	1	Rochester, University of,	1
Marquette University,	1	Rock Hill College,	2
Maryland, University of,	8	Rush Medical College,	1
Mass. Inst. of. Technology,	1	Rutgers College,	3
McGill University,	3	Simmons College,	1
McMaster University,	2	Smith College,	2
Medico-Chirurgical College, (Philadelphia),	2	South Carolina, Univ. of.,	3
Medico-Chirurgical College, (Virginia),	1	South Dakota Agric. Coll.,	1
Melbourne, University of,	1	Southern Homeo. Med. College (Baltimore),	1
Memphis Hosp. Med. Coll.,	2	Southwestern University,	4
Mercer University,	2	Starling Medical College,	1
Michigan, University of,	5	St. Francis Xavier College (N. S.),	1
Minnesota, University of,	4	St. John's College (Md.),	12
Mississippi College,	1		
Missouri, University of,	6		
Missouri Valley College	1		

St. Louis University,	1	Wells College,	1
Swarthmore College,	1	Wesleyan University,	3
Syracuse University,	4	Western Maryland Coll.,	6
Tennessee, University of,	3	Western Reserve Univ.,	2
Texas, University of,	9	Western Univ. of Penna.,	1
Toronto, University of,	4	West Lafayette College,	1
Trinity College (Conn.)	5	Westminster Coll. (Texas)	1
Tulane University,	6	Westminster Theo. Sem., (Md.),	1
Union College,	1	West Virginia University,	5
Union Theo. Sem. (Va.)	1	William and Mary College,	2
Ursinus College	2	William Jewell College,	4
Valparaiso University,	1	Williams College,	9
Vanderbilt University,	1	Whitman College,	3
Vassar College,	3	Whitworth College,	1
Vermont, University of,	1	Wisconsin, University of,	7
Vienna, University of,	1	Wittenberg College,	1
Virginia Theo. Sem.,	1	Wofford College,	1
Virginia, University of,	5	Woman's College (Balt.)	4
Wake Forest College,	3	Woman's Medical College (New York),	1
Washington College (Md.),	1	Woman's Med. Coll. (Phil.),	1
Wash. & Jefferson Coll.,	4	Wooster, University of,	2
Washington & Lee Univ.,	5	Yale University	28
Washington State College,	1		
Washington, University of,	1		
Wellesley College,	6		

DEGREES CONFERRED

It is proposed to print hereafter, at stated intervals of two or three years, the lists of those who have held the Johnston Scholarships and the Fellowships and of those who have received Degrees; accordingly, these lists are omitted this year from the annual Register, which, however, includes the names of those upon whom degrees were conferred during the year 1908-09, as below. In order to make the record complete, the cooperation of the Alumni is requested. Such information as to titles, degrees, positions, etc., as will supplement and perfect the statements hitherto published, will be gladly received.

DEGREES, 1909

When the institution is not named, this university or the Johns Hopkins Hospital is to be understood. (F) indicates that the person has held a fellowship here. *—Died.

Doctor of Philosophy

William Edward Burge (F), A. B. Rand.-Macon 1903.—Instr. Physiol., New York Univ.

N. Trigant Burrow, A. B. Fordham 1895; M. D. Virginia 1899; Asst. Psychol. 1908-09.—Europe.

George Brownlee Clinkscales, S. B. Clemson 1902.—Instr. Physics, Smith Coll. Northampton, Mass.

James Ryals Conner (F), A. B. Georgia 1898.—Fellow by Courtesy.

J. Frank Daniel (F), S. B. Chicago 1906.—Instr. Zool. Univ. of Mich., Ann Arbor.

Lucius Junius Desha, A. B. Wash. and Lee 1906.—Chemist, Nashville, Tenn.

Franklin Edgerton (F), A. B. Cornell 1905.—Asst. Sanskrit.

Eugene Edward Gill, Ph. B. Dickinson 1897.—Instr. Chem., Armour Inst., Chicago.

William Dana Hoyt (F), A. B. Georgia 1901.—Bruce Fellow.

Allan Chester Johnson (F), A. B. Dalhousie 1904.—Fellow, Amer. School, Athens.

Clinton Maury Kilby, A. B. Rand.-Macon 1896.—Instr. Physics, Lehigh, S. Bethlehem, Pa.

William Thomas Laprade (F), A. B. Washington Christian Coll. 1906.—Inst. Hist., Trinity Coll., Durham, N. C.

Gustav George Laubscher (F), A. B. Adelbert 1906.—Prof. Romance Lang. Rand.-Macon Woman's Coll., Lynchburg, Va.

David Deitch Leib (F), A. B. Dickinson 1903.—Instr. Math. Yale.

Charles Frederick Lorenz, S. B. Iowa Univ. 1897.—Instr. Physics, Queen's Univ. Kingston, Canada.

John Mabry Mathews (F), A. B. 1906.—Instr. Polit. Sci. Princeton.

Thomas Poole Maynard, A. B. 1905.—Asst. State Geologist, Atlanta, Ga.

David Aloysius McCabe (F), A. B. Harvard 1904.—Instr. Economics, Princeton.

Sidney Nirdlinger S. B. Knox 1906. —Chemist, Chester, Pa.

Louis J. Rettger. A. B. 1888.—Prof. Physiol., State Normal, Terre Haute, Ind.

Asa Arthur Schaeffer (F), A. B. Franklin and Marshall 1904.—Instr. Zool. Univ. of Tenn., Knoxville.

Maurice Roland Schmidt (F), A. B. 1906.—Chemist, Balt.

Joseph Theophilus Singewald. Jr. (F), A. B. 1906.—Student in Germany.

Edgar Apple Slagle, Ph. B. Franklin and Marshall 1904.—Asst. Chem. Medical Clinic.

Ernest Radcliffe Spedden (F), A. B. Dickinson 1904.—Instr. Economics, Purdue, Lafayette, Ind.

Herman Ivah Thomsen, A. B. Harvard 1881.—Baltimore.

Emanuel George Zies (F), A. B. 1906.—Fellow by Courtesy. (27)

Doctor of Medicine

Charles Robert Austrian, A. B., 1904. —Resident House Officer.

Walter Albert Baetjer, A. B., 1905. —Resident House Officer.

James Alvin Bass, A. B., 1905.—Act. Asst. Surg., U. S. Navy.

Julian Lee Birdsong, S. B., Nashville, 1899.—Interne, Hartford Hosp., Conn.

Samuel Walthall Budd, A. B., Hampden-Sidney, 1904; Graduate Student, 1904-1905.—Resident House Officer.

Montrose Thomas Burrows, A. B., Kansas, 1905.—Fellow, Rockefeller Inst. for Med. Research, N. Y.

Bender Zelotes Cashman, A. B., Pennsylvania Coll., 1905.—Res. Phys., West Penna. Hosp., Pittsburgh.

Arthur Bond Cecil, A. B., St. John's, 1905.—Act. Asst. Surg., U. S. Navy.

Florence Chapman Child, A. B., Bryn Mawr, 1905. — Interne, Hosp. Women and Children, Syracuse, N. Y.

Walter Francis Cole, S. B., Clemson, 1902. A. B., North Carolina, 1905. —Surgeon, Greensboro, N. C.

Harry Lewis Connett, Ph. B., Ohio Univ., 1905.—Physician, Dr. Hyde's Private Hosp., Nelsonville, Ohio.

Jennings Crawford, Ph. B., Coe, 1905.—Interne, Hartford Hosp., Conn.

James Watson Williams Dimon, A. B., Williams, 1905.—House Physician, Faxton Hosp., Utica, N. Y.

John Roscoe Elliott, A. B., Western Maryland, 1905.—Interne, R. I. Genl. Hosp., Providence.

Max Emmert, A. B., Iowa, 1905.—Physician, Atlantic, Ia.

Charles Rhein Essick, A. B., Yale, 1905.—Assistant in Anatomy.

William Lawrence Estes, Jr., A. B., Lehigh, 1905.—Resident House Officer.

Thomas Ludlow Ferenbaugh, A. B., Kenyon, 1905.—1st Lieut. Army Med. Reserve Corps, Washington, D. C.

Arthur Oscar Fisher, A. B., Wisconsin, 1905.—Resident House Officer.

H. Quigg Fletcher, A. B., Georgia, 1904.—Resident House Officer.

Ernest Robert Gentry, A. B., Kansas, 1905, and Med. Dept., 1905-1906.—1st Lieut. Army Med. Reserve Corps, Washington, D. C.

Ethel Mathews Girdwood (Mrs. George Peirce), A. B., Bryn Mawr, 1903.—Europe.

Emil Goetsch, S. B., Chicago, 1903, and Ph. D., 1906.—Assistant in Surg. (H. L.)

William Ernest Hart, S. B., Washington & Jefferson, 1905.—House Officer, Roosevelt Hosp., N. Y.

Thomas William Harvey, Jr., S. B., Princeton, 1905.—Interne, Presbyterian Hosp., N. Y.

Philip Charles Jeans, A. B., Kansas, 1904.—Resident, Robt. Garrett Sanitarium for Children (June to Sept.); Interne, Hartford Hospital, Conn.

Charles Rawson Kingsley, Jr., S. B., New York, 1905.—Resident House Officer.

Baldwin Mann, A. B., Williams, 1905.—House Officer, N. Y. City Hosp.

Fred Marlin Meader, S. B., Wesleyan (Conn.), 1902, and M. S. 1905.—Instr. in Pathol. and Bacteriol., Med. Dept. Univ. Syracuse, N. Y.

Philip Ball Moss, S. B., Central (Ky.), 1905.—Interne, Union Prot. Infirmary.

James B. Murphy, S. B., North Carolina, 1905.—Pathological Inst., Ward's Is., N. Y.

Patrick Ireland Nixon, A. B., Texas, 1905.—Resident House Officer.

George Rupp Pretz, S. B., Penna. Coll., 1905.—Physician, Lebanon, Pa.

Solomon W. Schaefer, A. B., Washington & Lee, 1904.—Resident House Officer.

Andrew Watson Sellards, A. B., Kansas, 1903, and A. M., 1904.—Asst. in Tropical Med. St. Paul's Hosp. and Asst. to Bureau of Science, Manila, P. I.

Thomas Peck Sprunt, A. B., Davidson, 1903.—Assistant in Pathology.

James Russell Stewart, A. B., Lake Forest, 1905.—Interne, New Haven Hosp., Conn.

Edward Wentz Stick, A. B., Franklin & Marshall, 1904.—House Officer, M. E. Hospital, Philadelphia.

Herbert Sedgefield Thomson, S. B., California, 1904.—House Officer, New York Hospital, N. Y.

*Charles Edward Trotter, S. B., N. C. Coll. Agricult. & Mechanic Arts, 1903; Grad. Student, 1904-1905.—**August* 11, 1909.

Robert Lester Waite, Ph. B., Yale, 1905.—Physician, Baltimore.

Isaac Chandler Walker, A. B., 1905. —Med. House Officer, Carney Hosp., Boston.

William Glenn Wallace, S. B., Hanover, 1905.—Interne, New Haven Hosp., Conn.

Duncan Cameron Walton, A. B., St. John's, 1905.—Act. Asst. Surg., U. S. Navy.
Leon Harlan Watkins, A. B., Southern, 1903, and A. M., 1905.—Resident House Officer.
Charles Wallace Webb, S. B., Arkansas, 1905.—Resident House Officer.
Arthur James Wiesender, A. B., Ripon, 1905.—Resident House Officer.
Gustav Herman Woltereck, A. B., 1905.—Asst. Physician, Balt. City Jail.
Walter Simrall Wyatt, S. B., Alabama, 1904, and M. S., 1905.—Med. Interne, Lakeside Hosp., Cleveland.
Iva Catherine Youmans, A. B., Converse, 1897; N. Y. Univ. Summer Sch., 1904; Woman's Med. Coll. (Balt.), 1904-1905.—Interne, N. Y. Infirmary for Women and Children.

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Master of Arts

John Francis Cremen, A. B. 1905.—Baltimore.
Joseph Townsend England, A. B. 1902; LL. B. Univ. of Md. 1906.—Atty.-at-Law, Balt.
William Howard Gahan, A. B. Loyola 1905; LL. B. Univ. of Md. 1908.—Atty.-at-Law, Balt.
Walter Oscar McIntire. A. B. Wooster 1898.—Instr. Damaguete, P. I.

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Bachelor of Arts

James Baily.—Baltimore.
George William Bishop.—Med. Student.
John Merryman Black.—Cockeysville, Md.
Isidor Blum.—Law Student, Columbia.
Nathaniel Hawley Brush.—Med. Student.
Samuel Claggett Chew, Jr.—Instr. Country School for Boys, Balt.
George Washington Corner, 3d.—Med. Student.
Harry Vail Deale.—Baltimore.
Allan Herbert Fisher.—Law Student, University of Maryland.
Samuel Fredman.—Student, Jewish Theol. Sem., N. Y.
Henry Warren Frey.—New York.
Edward Percy Guetard, Jr.
Leo Julius Gutman.—Baltimore.
Harry Kellogg Hardcastle.—Westinghouse Elec. Co., E. Pittsburg, Pa.
Alfred Boucsein Haupt.—Instr. Balt. Polytech. Inst.
Oliver Baker Hopkins.—Grad. Stud.
Albert David Hutzler.—Baltimore.
Walter Vincent Johnson.—Grad. Student.
Robert Glynn Lowndes.—Law Student, Univ. of Md.
William Hennick Martin.—Student, Mass. Inst. Tech.
William Howard Michael.—Med. Student.
Herbert Levy Moses.—Baltimore.
John Newman Numsen.—Baltimore.
George Franklin Onion.—Baltimore.
Robert Milton Overbeck.—Baltimore.
James Hamilton Owens.—Law Student, Univ. of Md.
William Edward Pearce, Jr.—Grad. Student.
Franklin Burche Pedrick.
Harold L. Russell.—Student of Forestry, Yale.
*Frank Salontz. **January* 13, 1910.
Philip Schneeberger.—Grad. Student.
Frederick Janney Smith.—Med. Student.
Warren Adams Stewart.—Law Student, Univ. of Md.
Martillus H. Todd.—Med. Student.
Benjamin Francis Weems, Jr.—Med. Student.
Franklin Pierce Whitcraft, Jr.—Baltimore.
William Z. White.—Baltimore.

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LIBRARIES

1. THE UNIVERSITY LIBRARY numbers 147,412 bound volumes, selected with special reference to the instruction here given. It is arranged in several collections, of which these are the chief:

General Reference,
Historical,
Economics,
Political Science,
Mathematical and Physical,
Chemical,
Biological,
Geological,
Classical,
Semitic,
Sanskrit,
Modern Languages,
McCoy Art Library,
Medicine,
Physiology and Anatomy,
Philosophy, Psychology, and Education

The reference library and reading room is open daily from 9 a. m. to 6 p. m.; the other rooms in accordance with special regulations.

The library receives the publications of the leading scientific societies of the world and the chief literary and scientific periodicals. The whole number of serials received exceeds fifteen hundred. The list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) exceeds two thousand. Important books are received by the library as soon as published, by purchase or by the courtesy of dealers.

2. THE PEABODY LIBRARY is a choice collection of books purchased since 1861. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 170,000 volumes, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a. m. to 10.30 p. m.

3. THE ENOCH PRATT FREE LIBRARY numbers 267,845 volumes and is open daily, without charge.

4. THE MARYLAND HISTORICAL SOCIETY LIBRARY contains 43,361 volumes of historical works and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (81,000 volumes), the Bar Library (30,000 volumes), the Medical and Chirurgical Library (21,000 volumes), the Maryland Diocesan Library (30,000 volumes).

6. Washington is so near that its museums and libraries may be easily visited. Among the chief institutions of interest to students are these:

The Library of Congress.
The Smithsonian Institution and National Museum,
The Army Medical and Surgical Museum and Library,
The U. S. Coast and Geodetic Survey,
The U. S. Geological Survey,
The U. S. Naval Observatory,
The Libraries of the Departments and Bureaus,
The Corcoran Art Gallery.

PUBLICATIONS ISSUED AT THE JOHNS HOPKINS UNIVERSITY

I. American Journal of Mathematics

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. Professor Frank Morley is now the editor. Thirty-one volumes of about 400 pages each have been issued, and the thirty-second is in progress. It appears quarterly. Subscription $5 per year (foreign postage 50 cents). Single numbers $1.50. A few complete sets remain. These will be sold for $125 per set.

II. American Chemical Journal

This journal was commenced in 1879, with Professor Remsen as editor. Forty-two volumes have been issued, and the forty-third is in progress. This journal appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year (foreign postage 50 cents). Single numbers 50 cents.

III. American Journal of Philology

The publication of this journal commenced in 1880 under the editorial direction of Professor Gildersleeve. Thirty volumes of about 500 pages each have been issued, and the thirty-first is in progress. It appears four times yearly. Subscription $3 per volume (foreign postage 50 cents). Single numbers $1. A few complete sets remain.

IV. Studies in Historical and Political Science

The publication of these papers was begun in 1882, under the editorial direction of Professor H. B. Adams. The series is now under the direction of the departments of History, Political Economy, and Political Science. Twenty-seven series are now completed, and the twenty-eighth series is in progress. A number of extra volumes have also been issued. Subscription $3 per volume (foreign postage 50 cents). The set of twenty-seven regular series will be sold for $88.

V. Memoirs from the Biological Laboratory

These monographs were issued under the editorial direction of Professor W. K. Brooks. Five volumes have appeared.

VI. Johns Hopkins University Circular, including the Annual Register, President's Report, and Medical Department Catalogue

The publication of the Circular began in December, 1879, and 224 numbers have since been issued. Subscription $1 per year.

VII. Contributions to Assyriology and Semitic Philology

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Berlin, are the editors. Volume VII is in progress.

VIII. Reprint of Economic Tracts

Professor J. H. Hollander, editor. First Series, 1903, $3; Second Series, $2; Third Series in progress, $2 net.

IX. The Johns Hopkins Hospital Reports

These reports are edited by the Medical Faculty of the University, and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume XV is in progress. Subscription $5 per volume (foreign postage 50 cents). The set of fourteen volumes will be sold for eighty dollars.

X. The Johns Hopkins Hospital Bulletin

The publication of this Bulletin began in 1899. It is published monthly. Volume XXI is in progress. Subscription $2 per year (foreign postage, 50 cents).

XI. Modern Language Notes

This journal is edited by Professor A. M. Elliott, with Professors James W. Bright and Hermann Collitz as associate editors. It appears monthly. The twenty-fifth volume is in progress. Price $1.50 per year (foreign postage, 25 cents).

XII. American Journal of Insanity

This journal is under the direction of a Board of Editors. It appears quarterly. The sixty-seventh volume is in progress. Subscription $5 per year.

XIII. Terrestrial Magnetism and Atmospheric Electricity

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume XV is in progress. Subscription $25 per year (foreign postage, 25 cents).

XIV. Reports of the Maryland Geological Survey

These reports are under the editorial direction of Professor William B. Clark, Director of the Survey.

XV. Reports of the Maryland Weather Service

These reports are under the direction of Professor William B. Clark, Director of the Service.

Some of the principal separate publications issued by the Johns Hopkins Press are:

THE PHYSICAL PAPERS OF HENRY A. ROWLAND. 716 pages, royal octavo. $7.50.

BALTIMORE LECTURES ON MOLECULAR DYNAMICS AND THE WAVE THEORY OF LIGHT. By Lord Kelvin. 716 pages, octavo. $4.50.

PHOTOGRAPHIC REPRODUCTION OF THE KASHMIRIAN ATHARVA-VEDA. Edited by Professor Bloomfield. 3 vols., folio. $50.

STUDIES IN HONOR OF BASIL L. GILDERSLEEVE. 527 pages, octavo. $6.00.

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THE FINANCIAL HISTORY OF BALTIMORE. By J. H. Hollander, 400 pages, 8vo. $2.00.

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THE AMERICAN WORKMAN. By E. Levasseur. (Translation.) 540 pages, 8vo. $3.00.

STUDIES IN TYPHOID FEVER. By William Osler and others. Series I, II, III. 776 pages, 8vo. $5.00.

POEMA DE FERNAN GONÇALEZ. Critical text by C. Carroll Marden. 274 pages, 8vo. $2.50.

THE TAIL OF RAUF COILYEAR. Edited by William Hand Browne. 164 pages, 8vo. $1.00.

ECCLESIASTES. A New Metrical Translation. By Paul Haupt. 50 pages. 50 cents.

NAHUM. A New Metrical Translation. By Paul Haupt. 53 pages. 50 cents.

THE OYSTER. By William K. Brooks. 25 pages with 16 plates. $1.00.

ANCIENT SINOPE. By David M. Robinson. 112 pages. $1.00.

NOTES ON STAHL'S SYNTAX OF THE GREEK VERB. By Basil L. Gildersleeve. 65 pages. 50 cents.

THE HAGUE PEACE CONFERENCES OF 1899 AND 1907. By James Brown Scott. Vol. I, *The Conferences*, 887 pages; and Vol. II, *Documents*, 548 pages. $5.

BIBLIOGRAPHIA HOPKINSIENSIS. A list of publications by members of the university.

DISSERTATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE JOHNS HOPKINS UNIVERSITY.

REGULATIONS OF THE TREASURER'S OFFICE

I. The Treasurer's Office is open daily from 9 a. m. to 4 p. m.

II. All bills should be presented at that place, endorsed as correct by the person under whose authority the expense has been incurred.

III. No member of the academic staff is allowed to incur a bill in the name of the university, unless authority is given for the same by the Trustees, in advance, either as an item in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. Orders for books and apparatus to be imported from Europe will not be considered authorized, unless countersigned by the President or the Treasurer of the University.

All goods must be consigned to and addressed "The Johns Hopkins University, Baltimore, Md." Goods for other parties (societies or individuals) must not be included in the university cases. Invoices, sworn to before the U. S. Consul, must be sent by mail. and a duplicate invoice by the following mail, both addressed to The Johns Hopkins University.

Unless otherwise ordered, goods from Europe should be sent as follows:

From Germany by the North German Lloyd steamers sailing for Baltimore from Bremen; from England by steamship lines from Liverpool to Baltimore; from France and Italy, via Havre and Liverpool.

Printed copies of instructions to shippers, which can be obtained at the Treasurer's Office, should in all cases be enclosed with the orders.

V. The Treasurer's Office will make purchases, at wholesale rates, of supplies which are required for the current needs of the university.

VI. Such pass books as are authorized by the Treasurer should be presented for balance and settlement every month.

VII. The wages of all persons employed by the university will be paid at the Treasurer's Office.

VIII. When C. O. D. packages are expected, previous arrangements should be made for their reception.

IX. Outlays made for individuals (express parcels, postage, telegraph messages, etc.) should be settled at once.

X. An annual allowance is made by the Trustees, in the budget, for such expenses as they approve, and in deciding on the items they are governed by a consideration of the general interests of the university, as well as by the needs of special branches of instruction. Balances to the debit or credit of any account are carried forward to the new account at the opening of each financial year (September 1). A statement of the amount of the balance and of any additional appropriation will be communicated to the parties severally interested, if requested, after the Trustees' meeting in October.

SCIENTIFIC SOCIETIES

1. The Scientific Association, meeting monthly, under the presidency of Professor H. C. Jones.

2. The Philological Association, meeting monthly, under the presidency of Professor Gildersleeve.

3. The Historical and Political Science Association, meeting fortnightly.

4. Naturalists' Field Club, which makes weekly excursions during the spring and autumn and holds monthly meetings for the presentation and discussion of papers.

There are also companies which meet weekly in the laboratories for the reading of the scientific journals, and seminaries in several departments of study.

STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION

The Johns Hopkins University has had in view, from the beginning, two main objects,—the advancement of learning through investigations conducted by its teachers and its properly qualified students, and the communication of learning through carefully planned courses of instruction. The facilities which it provides and its methods of administration are intended both for the encouragement of research, in the case of those competent to undertake it, and for the discipline and guidance of those whose chief concern is the acquisition of knowledge.

The work of the University is carried forward—

I. Under the Faculty of Philosophy.

II. Under the Faculty of Medicine.

The students enrolled under the Faculty of Philosophy are:

(1) Those who have obtained a baccalaureate degree from a college of good standing, and desire to follow advanced courses in scientific, literary, or historical subjects; and also persons who wish to take advantage of the opportunities for individual investigations here afforded. Women are admitted, with the consent of the professors under whom they wish to work, on the same terms as men.

(2) Undergraduate students, who are, in most cases, looking forward to the degree of Bachelor of Arts, but some of whom are engaged in special studies without reference to graduation.

The requirements for admission to the undergraduate courses, the arrangement of these courses in the several "Groups," etc., are stated on pages 172-194. More detailed information is given in "The Collegiate Instruction of the Johns Hopkins University," which may be obtained on application, personally or by letter, to the Registrar of the University.

The students enrolled under the Faculty of Medicine are:

(1) Candidates for the degree of Doctor of Medicine. These must be college graduates, or must give evidence by examination that they possess the attainments indicated by a baccalaureate degree in arts or sciences. Women are admitted on the same terms as men.

(2) Doctors of Medicine desiring to pursue certain special courses, which are annually announced.

The terms of admission to the medical department and the general plan of instruction are briefly stated on pages 196-200. Detailed information is given in the "Catalogue and Announcement," which will be sent upon application to the Registrar of the department.

I. FACULTY OF PHILOSOPHY

Advanced students are received whether they are candidates for a degree or not, and they are permitted to attend such lectures and exercises as they may select. On entering the university they are expected to present their diplomas and certificates from the institutions with which they have been connected, and also letters of introduction. They are not examined by the university for admission, but each instructor satisfies himself of the attainments of those who wish to follow his guidance, before admitting them to his classes.

The professors are ready to give personal counsel to those who seek it; books and instruments adapted to investigation and advanced work have been liberally provided; seminaries limited to a few advanced students have been organized in various subjects; societies devoted to philology, to mathematical, physical, and natural science, and to history and political science, afford opportunities for the presentation of memoirs and original communications, and there are also conferences for the reading and discussion of philological, philosophical, bio-

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logical, physical, geological, and chemical papers; during the year courses of lectures are given by resident and non-resident professors on topics to which they have given special attention; the libraries of the Peabody Institute and Maryland Historical Society, founded for the benefit of scholars, are easily accessible; the issuing, under the auspices of the Trustees, of publications devoted to mathematics, chemistry, philology, biology, the modern languages, and history, brings the university into advantageous connection with other foundations; and the university reading room, which is constantly open, is liberally supplied with new and standard books and with the literary and scientific journals of this and other lands.

Instruction is carried on in the different departments by methods which vary with the nature of the subject and the character and proficiency of the scholars; but in all alike the end is the same,—that, while the students are becoming familiar with the work prosecuted and the results attained elsewhere, and are adding to their general intellectual culture, they may be encouraged to become independent and original investigators in their chosen fields of labor. Within reasonable limits the university will provide such books, apparatus, and material as may be requisite for this purpose.

The principal subjects in which advanced instruction is now provided are these:

Mathematics.
Physics and Astronomy.
Chemistry.
Geology and Mineralogy.
Zoology.
Botany.
Physiology.
Pathology.
Greek.
Latin.
Classical Archæology and Art.
Sanskrit and Comparative Philology.
Semitic Languages.
Anglo-Saxon and English.
Romance Languages.
German.
Germanic Philology.
History.
Political Economy.
Political Science.
Philosophy, Psychology, and Education.

MATHEMATICS

The advanced courses are so arranged that a qualified student gets in three years the more important points of view of the whole subject. The courses are elastic in character, subjects being introduced as they are needed. In general, the plan pursued is to foster independent inquiry on the part of the student. Once embarked on investigation, he uses all the apparatus of lectures and library with intelligent purpose. The seminary, which meets weekly, is primarily intended for the presentation of the results of the student's own thinking. Literature either intrinsically important or opportune is presented and discussed in the reading class, which also meets weekly.

ADVANCED COURSES

1. Mathematical Seminary.
   One hour weekly. Professor MORLEY.
2. Reading Class.
   One hour weekly. Professor MORLEY.
3. Higher Geometry.
   Three hours weekly, first half-year. Professor MORLEY.

This is a general course in Geometry, covering in three years such matters as Projective Geometry, the Invariants of algebraic forms, Line Geometry, Conformal Geometry, Geometry on an algebraic curve or surface.

4. Theory of Functions.
   Three hours weekly, second half-year. Professor MORLEY.

Algebraic Functions and their integrals; Elliptic, elliptic modular, and general automorphic functions; Theory of the potential.

5*. Dynamics.
   Two hours weekly, first half-year (every other year). Professor MORLEY.

Special stress is laid on Rigid Dynamics.

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*Course thus marked will *not* be given in 1910-11.

6*. Vector Analysis.

Two hours weekly, first half-year (every other year). Professor MORLEY.

7. Elementary Theory of Functions.

Two hours weekly, through the year. Dr. COHEN.

An introduction to the theories of functions of a real and a complex variable.

8. Differential Equations.

Two hours weekly, through the year. Dr. COHEN.

Including, in three years, Ordinary Differential Equations, their integral curves and singular points; Partial Differential Equations; Lie's theory.

9*. Differential Geometry.

Two hours weekly, through the year. Dr. COHEN.

Including a study of Curves in space; Surfaces and lines upon them; Spherical representation; Applicability of surfaces.

10. Calculus of Variations.

Two hours weekly, one half-year. Dr. COHEN.

11*. Theory of Numbers.

Two hours weekly, one half-year. Dr. COHEN.

12. Theory of Groups.

Two hours weekly. Associate Professor COBLE.

Including Theory of Equations, Finite Geometries, Theory of algebraic forms.

13*. Theory of Correspondence.

Two hours weekly. Associate Professor COBLE.

Including such matters as Cremona Transformations, general birational transformations.

14. Theory of Probability.

Two hours weekly, one half-year. Associate Professor COBLE.

Including the applications to statistics and the Theory of Errors.

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*Course thus marked will *not* be given in 1910-11.

UNDERGRADUATE COURSES

1. Solid Geometry; Algebra (special topics).

Three hours weekly, first half-year. Professor HULBURT and Associate Professor COBLE.

Plane Analytic Geometry.

Three hours weekly, second half-year Professor HULBURT and Associate Professor COBLE.

Conference.

Two hours weekly, through the year.

2. Differential and Integral Calculus.

Three hours weekly, through the year. Professor HULBURT.

Conference.

Two hours weekly, through the year.

3. Differential and Integral Calculus (special topics); Determinants; Solid Analytic Geometry; Projective Geometry.

Three hours weekly, through the year. Professor HULBURT.

Conference.

Two hours weekly, through the year.

4. Differential Equations.

Three hours weekly, first half-year. Dr. COHEN.

Vector Analysis.

Three hours weekly. second half-year. Dr. COHEN.

Conference.

Two hours weekly, through the year.

In connection with the three hours' class-room instruction, the instructor in each course meets his students weekly in a two-hour session, for the purpose of supplementary explanation and application of the principles taught in the class-room. This is the part of each course designated as "Conference." It is not intended thus to increase the amount of work required of the student, but rather to aid him in the understanding and preparation of the work of the class.

Physics and Astronomy

The Physical Laboratory offers facilities in the form of apparatus, libraries, and machine shops to students who wish to pursue experimental investigations in any field of Physics. If the results of these are to be offered as a dissertation for the degree of Doctor of Philosophy, the work must be done under the general direction of the Director of the Laboratory, or of one of the other professors. For students carrying on experimental researches the laboratory is open daily, except Saturdays, from 9 a. m. until 5 p. m., and on Saturdays from 9 a. m. until 1 p. m.

Regular courses of instruction in both Physics and Astronomy are given in the form of lectures and laboratory exercises. They may be classified as Advanced and Elementary. The former are designed primarily for graduate students; the latter, for undergraduates.

ADVANCED COURSES

Seminary and Journal Meetings

All advanced students meet with the instructors twice each week,—once in the Physical Seminary, and once for the discussion of the current Physical Journals.

During the year 1910-11 the questions to be considered in the Seminary will refer to the history of the development of Theoretical Mechanics.

Lectures

1. General Physics. Professor Ames.
Four hours weekly, through the year.

This is a course of lectures in Mathematical Physics continuing for three years and including the subjects of Theoretical Mechanics, Elasticity, Hydrodynamics, Sound,

Thermodynamics, Heat Conduction, Electricity and Magnetism, and Light. During the year 1910-11 the lectures will be on Mechanics, Electricity, and Hydrodynamics.

2. Selected Problems in Advanced Physical Optics. Professor WOOD.
Three hours weekly, through the year. [Omitted in 1910-11.]

3. Applied Electricity. Associate Professor WHITEHEAD.
Two hours weekly, through the year.

4. Applied Electricity (*Advanced Course*). Associate Professor WHITEHEAD.
Two hours weekly, through the year.

5. Celestial Mechanics. Dr. J. A. ANDERSON.
Two hours weekly, through the year.

6*. General Astronomy. Dr. J. A. ANDERSON.
Three hours weekly, through the year. (*See 6 below*).

7. Advanced Physical Optics. Dr. A. H. PFUND.
Three hours weekly, through the year.

8. Conduction of Electricity in Gases. Dr. W. W. STRONG.
One hour weekly, through the year.

Laboratory Courses

1. Special Exercises in Physics in preparation for independent research, under the direction of Professors AMES, BLISS, and WHITEHEAD, and Dr. PFUND.

2. Applied Electricity. Associate Professor WHITEHEAD.

3. Use of Astronomical and Astrophysical Instruments. Dr. J. A. ANDERSON.

For students following these courses the laboratory is open daily, except Saturdays, from 9 a. m. to 5 p. m.; the observatory is open every favorable night.

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*This course may be chosen as an elective by undergraduates.

Elementary Courses

1. Elements of Physics.

Three hours weekly, through the year. Professor Ames.

This course of lectures is based upon Ames's "Text-book of General Physics," and is intended to include the field of Physics in an elementary manner. It presupposes a knowledge of the elements of plane trigonometry. Course 4 of laboratory work (see below) is arranged to accompany these lectures.

2 *and* 3. The four following series of lectures are given each year and are combined, together with the corresponding laboratory work (see Physics 5 below), into two courses known as Physics 2 and Physics 3. The mode of combination varies from year to year according to the needs of the students applying.

(*a*) Elementary Theoretical Mechanics.

Three hours weekly, twelve to fifteen weeks. Professor Bliss.

This course is designed to serve as an introduction to Mathematical Physics, and students following it must have a knowledge of the elements of the Calculus.

(*b*) Elementary Electricity and Magnetism.

Three hours weekly, fifteen to twenty weeks. Professor Bliss.

This is an introducction to the mathematical theory of the electrostatic and magnetic fields and electric currents. Course "*a*" or an equivalent preparation is assumed.

(*c*) Elementary Thermodynamics.

Three hours weekly, twelve to fifteen weeks. Professor Bliss.

The object of this course is to familiarize the student with the fundamental ideas of Thermodynamics, such as Temperature, Entropy, and Reversibility. By way of illustration applications are made to very elementary problems in heat engines, solutions, and electrochemistry, so far as time will permit. Course "*a*" or an equivalent preparation is assumed.

(*d*) Physical Optics.

Three hours weekly, fifteen weeks. Dr. Pfund.

This course is a moderately advanced treatment of the subject of optics, special emphasis being laid on interference, diffraction, polarization, and their applications to modern instruments of high efficiency.

4. Laboratory Work for Beginners.

Two afternoons weekly, through the year. Professor Bliss and assistants.

In this elementary work the students are taught methods of exact observation and measurement, and, so far as possible, they study the fundamental phenomena of Physics in a quantitative manner. The exercises given in Ames and Bliss's "Manual of Experiments in Physics" serve as a basis for this work.

5. Laboratory Work, in connection with Physics 2 and 3.

To complete each of these courses the student is required to pursue two of the four following groups, making together two afternoons a week for the year.

(*a*) Mechanics.

Two afternoons weekly, twelve weeks. Professor BLISS.

In this course the students are taught methods of exact measurement in time, length, and mass, and methods for the determination of the various mechanical and elastic constants.

(*b*) Electricity and Magnetism.

Two afternoons weekly, twenty weeks. Professor BLISS.

Special attention is given to instruction in modern methods of measurement of various electrical quantities and in the use of improved apparatus. Those qualified and desiring such instruction may substitute work with dynamos, motors, and transformers for part of the course.

(*c*) Heat.

Two afternoons weekly. one half-year. Professor BLISS.

This includes methods of measuring temperature, including the use of thermocouples, resistance thermometers and pyrometers, together with other exercises illustrating lecture course "c" above.

(*d*) Optics.

Two afternoons weekly, one half-year. Dr. PFUND.

The students are given a thorough working knowledge of experiments dealing with fundamental principles, as well as of experiments involving the use of modern types of optical instruments, such as the plane and concave grating, Michelson and Fabry and Perot Interferometers, Polarimeters, etc.

6. General Astronomy.

Three hours weekly, through the year. Dr. ANDERSON.

The theory of astronomical instruments and observations will be outlined (based on Young's "General Astronomy"), a general treatment of spherical astronomy and the elements of celestial mechanics will be given, together with as much physical astronomy as time will permit. The students will spend one evening per week throughout the year in the observatory, where instruction in the actual use of instruments will be given.

CHEMISTRY

The Chemical Laboratory is equipped with apparatus for nearly all kinds of scientific chemical investigations, and it is the policy of the department to provide every needed facility for promising investigations of a special or unusual character.

The laboratory is open daily, except Saturdays, from 9 a. m. until 5 p. m., and on Saturdays from 9 a. m. until 1 p. m.

ADVANCED COURSES

I. *Journal Meetings*

These meetings are held at 9 a. m. on Mondays, throughout the year, and are under the direction of Professor REMSEN. Toward the end of the year, those who have been engaged in research give an account of the progress of their investigations.

II. *Lectures*

(*a*) ORGANIC CHEMISTRY

The lectures in Organic Chemistry are given by Professor REMSEN, except those upon certain chapters of the subject, which are given by Associate Professor ACREE. The course consists of two lectures weekly and extends over two years.

(*b*) INORGANIC CHEMISTRY

The course on this subject is given by Professor MORSE. It consists of two lectures weekly and extends over three years.

(*c*) PHYSICAL CHEMISTRY

Three lectures weekly are given throughout the year by Professor JONES.

(*d*) SPECIAL TOPICS IN CHEMISTRY

Short courses of lectures upon special topics are given each year by Professor JONES and Associate Professor ACREE.

III. *Laboratory Courses*

(*a*) QUALITATIVE ANALYSIS

This course is under the direction of Professor RENOUF, and is designed to meet the needs of those graduate students whose knowledge of the subject is defective.

(*b*) QUANTITATIVE CHEMISTRY

This work is under the direction of Professor MORSE.

(*c*) PHYSICAL-CHEMICAL METHODS

The routine work in this branch usually occupies from four to six weeks and is under the direction of Professor JONES.

(*d*) ORGANIC PREPARATIONS

This work is done under the direction of Associate Professor ACREE. The required work occupies from eight to twelve weeks.

The student who is a candidate for the degree of Doctor of Philosophy, must give evidence that he has a satisfactory knowledge of elementary chemistry and is familiar with laboratory methods, before he is permitted to undertake the advanced courses. These consist of lectures, and laboratory exercises in (*b*) quantitative chemistry, (*c*) physical-chemical methods, and (*d*) organic preparations. The order in which these are taken is not fixed, but is arranged with reference to the convenience of the student.

Having completed the routine work of the laboratory, the student is assigned by the director of the laboratory to one of the staff who proposes to him a subject for investigation, which may be made the basis of the Doctor's dissertation,* and who thenceforth directs his work in the laboratory. It sometimes happens that the student has sound reasons for preferring some particular line of research, and this course is allowed if the circumstances permit.

For those who do not look forward to the degree, the rules are less rigid. Any person admitted to the Univer-

*The length of time required for the completion of the dissertation work cannot be definitely stated, but, as a rule, from one year to one and one-half years should be allowed for it in the plans of the candidate.

sity as a special student is permitted to take any of the laboratory or lecture courses for which he is qualified by previous training. The department also provides laboratory facilities for experienced chemists who wish to come to it for the purpose of carrying out researches of their own.

UNDERGRADUATE COURSES

1. Introduction to General Chemistry.

(*a*) *Lectures and recitations, three hours weekly, through the year.* Professor RENOUF.

(*b*) *Laboratory work, six hours weekly, through the year.* Professor RENOUF, Dr. GILPIN, and assistants.

No previous knowledge of chemistry is required. The class-room work is based on Remsen's Chemistry (Briefer Course) and covers the field of inorganic chemistry, as far as possible. The last twelve class-room exercises give a brief sketch of organic chemistry, particularly for the benefit of those students whose study of chemistry is confined to the first-year course. In the laboratory the student repeats the experiments performed in the class-room, and, in addition, has some practice in simple quantitative analysis and in making inorganic preparations. Each student is required to keep a notebook of his work.

2. Advanced Inorganic Chemistry and Qualitative Analysis.

(*a*) *Lectures and recitations, three hours weekly, through the* year. Dr. GILPIN.

(*b*) *Laboratory work, six hours weekly, through the year.* Professor RENOUF, Dr. GILPIN, and assistants.

The class-room work in the second year is intended to give a more thorough knowledge of chemical and physical-chemical laws, of the properties of chemical compounds, and of the principles of qualitative analysis. The laboratory work is in qualitative analysis and inorganic preparations.

3. Chemistry of the Compounds of Carbon.

(*a*) *Lectures and recitations, three hours weekly, through the year.* Dr. GILPIN.

(*b*) *Laboratory work, six hours weekly, through the year.* Professor RENOUF, Dr. GILPIN and assistants.

The class-room work of the third year is devoted to the study of Organic Chemistry. The laboratory work is the making of organic preparations, but also includes practice in the analytic detection of organic substances and in analytical methods of value to those intending to study medicine. The text-book used is Remsen's Organic Chemistry.

This course is open only to those who have completed Courses 1 and 2.

4. Laboratory Work only.

Laboratory work, six hours weekly, through the year. Professor RENOUF. Dr. GILPIN, and assistants.

The laboratory work comprises advanced qualitative analysis, including technical methods, difficult inorganic preparations, and assaying. Those contemplating graduate work in chemistry will devote half of the year to the study of Volhard and Zimmermann's "Experiments in General Chemistry;" others may substitute quantitative analysis.

Students of the fifth group whose principal subject is chemistry are required to pursue the courses in chemistry during the first, second, and third years. Those who look forward to the study of medicine are advised to follow the courses in the first and second years, and to take the course in the compounds of carbon in their last year of residence.

The fourth-year course is intended for those students only who have satisfactorily absolved the courses of the three preceding years. It will be a help to those who intend to follow graduate work in chemistry, and also to those who desire to make a practical use of their knowledge of chemistry after receiving the bachelor's degree.

GEOLOGY

The Geological Laboratory offers facilities in the form of collections, instruments, and libraries to students wishing to pursue special researches in geology and its allied subjects—paleontology, petrography, mineralogy, etc. Such researches may be carried on independently, or with the co-operation of the members of the geological staff; but, if the student intends to become a candidate for a degree, the work must be conducted under the general direction of the head of the department or of his associates.

The laboratory, collections, and libraries are open to the advanced students daily, from 9 a. m. until 5 p. m.

Regular courses of instruction in geology are given in the form of lectures, laboratory exercises, and field work. The advanced courses are adapted to the requirements of students of maturity, the general courses to students desiring an elementary or cultural training in the subject. The former are designed primarily for graduate students in geology; the latter for undergraduates or for students from other departments wishing a more general knowledge of the subject.

ADVANCED COURSES

Seminary and Journal Meetings

The advanced students meet with the instructors once each week for the discussion of current publications dealing with geology. During the latter half of the year papers are presented giving the results of researches conducted in the laboratory, or summarizing the present state of knowledge regarding geological questions of general interest.

Lectures

1. Historical Geology. Professor CLARK.
   Two hours weekly, through the year.
2. Sytematic Paleontology. Professor CLARK.
   Two hours weekly, through the year.
3. Economic Geology. Professor CLARK.
   Two hours weekly, through the year.
4. Geological Physics. Professor REID.
   Two hours weekly, through the year.
5. Exploratory Surveying. Professor REID.
   Two hours weekly, through the year.
6. Advanced Mineralogy. Professor MATHEWS.
   Three hours weekly, through the year.

7. Petrography. Professor MATHEWS.
Three hours weekly, through the year.

8. Paleobotany. Mr. E. W. BERRY.
Two hours weekly, first half-year.

Laboratory Courses

1. Paleontology. Professor CLARK and Mr. BERRY.
Weekly, through the year.

2. Petrography. Professor MATHEWS.
Weekly, through the year.

3. Advanced Mineralogy. Professor MATHEWS.
Weekly, through the year.

4. Geological Field Methods. Professor MATHEWS.
Weekly, during the fall and spring.

Laboratory studies in advanced courses are carried on daily from 9 a. m. until 5 p. m. under the general direction of the professors in charge. who are accessible at all times. An afternoon is devoted especially to each course, when the subject matter is more fully developed by quizzes, demonstrations, etc.

UNDERGRADUATE COURSES

1. Elements of Geology.

Three lectures or recitations and three hours of laboratory work weekly, through the year. Associate Professor SWARTZ.

This course is open to all students. It is designed to give a general view of the subject of Geology, and may profitably be pursued by those who wish to have some knowledge of the chief events of the earth's history. It includes an account of the origin of the features of the surface of the earth, a discussion of the phenomena of earthquakes, volcanoes, mountain-making, and an outline of the past history of the earth.

Materials illustrative of the lectures are studied in the laboratory. Emphasis is placed upon the observation of geological phenomena in nature, the vicinity of Baltimore and the State of Maryland presenting features of unusual interest for such study. Frequent excursions are made to neighboring points where the principles of the science are studied in the field, while a longer trip is made in the spring to places of special interest for geological study. The longer excursion may be omitted by students who desire to do so, the field trips in the vicinity of Baltimore only being taken. This course is illustrated by maps, lantern views, and the rich collections of the university.

2. Mineralogy and Elementary Petrography.

Three lectures or recitations and six hours of laboratory work weekly, through the year. Associate Professor SWARTZ.

This course includes the study of crystallography, a discussion of the more important minerals, and a brief consideration of the origin and characteristics of the chief types of rocks. Numerous excursions are made to points of interest in the vicinity of Baltimore, which is unusually rich in the variety of its rocks and minerals.

Emphasis is laid upon laboratory work, which includes the study of crystal models, the identification of minerals by means of the blowpipe and by inspection, and the examination of rocks in the laboratory and in the field. A knowledge of chemistry is required for the pursuit of this course.

3. Applied Geology.

Three hours weekly, through the year, with laboratory work. Professor MATHEWS.

This course is devoted to a discussion of the non-metallic minerals and rocks which are worked commercially. The knowledge of geology and mineralogy gained in the preceding courses is applied to the recognition of useful minerals, their mode of occurrence, properties, values, and uses. The main sources of coal, oil, clay, building-stones, abrasives, gems, etc., the way they are won, and their economic importance, are treated with more or less detail. The aim of the course is to supply such information regarding mineral resources as an educated man should possess. The treatment of the technical questions of metallurgy or mining must be sought in technical schools.

State Scientific Bureaus connected with the Department.—Two scientific bureaus, established by the legislature and maintained at the expense of the State, are carried on in connection with the geological department. They are the Maryland Geological and Economic Survey and the Maryland State Weather Service. Professor Clark is the director of both these organizations, which are concerned with a study of the geology and physical features of the State of Maryland. The work is carried on under his direction mainly by the instructors and students of the department. A State Forestry Bureau, of which Professor Clark is Executive Officer, is also located in one of the buildings of the geological department.

Advantages afforded by Proximity to Washington.—Washington is less than an hour distant from Baltimore. This renders it possible to take frequent advantage of the facilities afforded by that city, where the officers of the various scientific bureaus and societies give the students of the university every opportunity to examine the rich collections and libraries under their control.

Field Work.—The area of the State of Maryland includes, notwithstanding its comparatively small size, a remarkable sequence of geological formations. The ancient rocks of the earth's crust, as well as those still in the process of deposition, are found, while between these wide limits there is hardly a geological epoch which is not represented. As a result most excellent facilities are afforded for a study of the various geological horizons. Excursions to points of interest are made during the autumn and spring months.

Zoology and Botany

The Biological Laboratory furnishes adequate rooms, with the usual apparatus, for carrying on research in animal and plant morphology, embryology, and experimental zoology. For special investigations unusual apparatus will be obtained.

It is planned that, before receiving the degree of Doctor of Philosophy, each student shall have the opportunity to study marine and terrestrial life in some tropical region. In the spring and summer of 1910 this work will be carried on in Jamaica, West Indies.

A collection of living plants in the botanical garden and conservatory, a physiological laboratory in the latter, and propagating grounds nearby are available for experi-

mental work. A collection of carefully "fixed" and preserved alcoholic material of several hundred species of plants is available for histological and developmental study. The herbaria of the laboratory include the Schimper collection of European seed plants, the Field Club collection of local plants, the Fitzgerald collection of mosses, and smaller collections of fungi, marine algae, and Jamaican plants.

The library in the laboratory is supplemented by the main library of the university and other libraries in the city, including the excellent botanical library of John Donnell Smith, whose courtesy has always made his library and herbarium available for advanced students.

Prompt publication of abstracts of results is provided for in the University Circular. From time to time the results of extensive investigations in zoology are published by the University Press in a series of illustrated quarto monographs. The Adam T. Bruce Fellowship is awarded to men capable of carrying on research in biology. One of the graduate students in zoology may be appointed each year to occupy the University table at the marine laboratory of the U. S. Fisheries Bureau, at Woods Holl, Mass.

The laboratories are open from 9 a. m. to 5 p. m., and for necessary research in the evenings, but only by special permission.

ADVANCED COURSES

I. *Zoology*

Laboratory work in general zoology, morphology, and embryology is directed by Professor ANDREWS. The work in experimental zoology is directed by Professor JENNINGS. The student will receive such assistance and training as his individual needs seem to require. Work done in the laboratory is supplemented by work in the field and at the seashore.

Journal Club.—All the graduate students take part with the instructors in a weekly discussion of the current literature.

Seminary.—Professors ANDREWS and JENNINGS will meet the advanced students for discussion of some of the fundamental problems of zoology weekly from the beginning of the session until the Easter vacation.

Experimental Zoology.—Professor JENNINGS. *Three hours a week (lectures, laboratory work, and demonstrations), from the beginning of the session till February* 1.

During the year 1910-1911 this course will be devoted to the Behavior of Animals. It will deal mainly with behavior in lower animals, and will be carried on in co-operation with the course to be given during the second half-year by Professor WATSON in the department of Psychology, dealing mainly with higher animals. Students should arrange to take both courses.

II. *Botany*

1. Journal Club and Seminary.

a. The Journal Club meets weekly through the year, in conjunction with the Zoological Journal Club.

b. The Botanical Seminary meets twice weekly, from December 1 to May 1. Professor JOHNSON.

The seminary work of the year 1909-10 was based on Warming's "Oecology of Plants."

2. Lectures and Laboratory Work.

I. The Reproduction and Phylogeny of Plants. Professor JOHNSON.

a. *Three lectures weekly through the year.*

b. *Laboratory work associated with the lectures, twice weekly through the year.*

c. *Definite problems in field work assigned for study in the autumn and spring.*

II. The Histology and Ecological Anatomy of Plants. Professor JOHNSON.

a. *Two lectures or conferences weekly from January* 1 *to April* 1.

b. *Laboratory work twice weekly from January* 1 *to April* 1.

III. The History of Botany. Professor JOHNSON.

Two lectures weekly from October 1 *to December* 20.

The following themes will be discussed in alternate years: The Theory of Sex in Plants, The Cell Theory.

IV. Plant Physiology. Professor LIVINGSTON.

Lectures and laboratory work on the chief plant processes. Green's Plant Physiology will be read. A good general knowledge of physics and chemistry is highly desirable.

a. *Three lectures or conferences weekly till February* 1.

b. *Six hours of laboratory work weekly till February* 1.

V. Physiology of the Cell. Professor LIVINGSTON.

An advanced course on protoplasmic processes, such as protoplasmic movement, the chemistry of nutrition and respiration, enzymes, etc.

a. *Two lectures weekly from February* 1 *to June* 1.

b. *Six hours of laboratory work weekly from February* 1 *to June* 1, *with reading of original articles.*

The laboratory work will aim to give the student illustrative material bearing on the subject as well as to bring him into contact with problems and methods of research, and will require the reading of selected original literature, much of it in French or German. Open to students who have had Course I or its equivalent, or a similar course in animal physiology.

VI. Problems in Plant Physiology. Professor LIVINGSTON.

a. *Two lectures weekly throughout the year.*

b. *Six hours of laboratory work and a one-hour conference weekly throughout the year.*

This course plans to give perspective and to prepare the student for profitable research in either pure or applied physiology. Each student will carry on experimentation upon and will work up the literature of restricted phases of plant activity, reporting on both literature and experiments. A considerable knowledge of the principles and methods of physics and chemistry is prerequisite.

UNDERGRADUATE COURSES

The collegiate courses in zoology and botany are known as Biology 1, Biology 2, Biology 3, and the Natural History Course.

1. General Biology and Embryology.

Six hours laboratory work and three lectures or other exercises weekly, through the year. Professor ANDREWS and assistants.

This introductory course is open to all students and may be taken without previous training in chemistry or physics. It may be taken profitably by students interested in political economy, history, psychology, or ethics; it will be found useful to those looking forward to the ministry; and it is required of all who are to enter the medical school.

(*a*) General Biology. [*Till March* 15.]

In the laboratory each student studies with the microscope, or dissects, selected animals and plants, from the more simple such as amoeba and yeast, to the more complex such as the fern and frog. In the lectures some of the fundamental facts of Biology are emphasized.

(*b*) Embryology. [*After March* 15.]

Each student studies the cleavage of the living frog's egg and the formation and transformation of the tadpole. Subsequently he studies the hen's egg and the formation of organs in the embryo chick, learning to make his own serial sections, etc.

2. Comparative Anatomy and Bacteriology.

Six hours of laboratory work and three lectures or other exercises weekly, through the year. Dr. COWLES.

This course continues the training of Biology 1 in limited fields, and is recommended to those who expect to study medicine, or to specialize in any department of Biology.

(*a*) Comparative Anatomy of Vertebrates. [*Till March* 15.]

The student dissects the skate, shark, codfish, nectrus, turtle, alligator, pigeon, and dog. The lectures emphasize the principles of animal morphology.

(*b*) Bacteriology. [*After March* 15.]

The student learns the methods of handling, cultivating, and studying non-pathogenic bacteria. The practical work gives valuable training in careful laboratory methods. The lectures treat of bacteria from a biological point of view, as very important agents in natural processes.

3. Zoology and Botany.

Six hours of laboratory work and three lectures or other exercises weekly, through the year.

(*a*) Zoology. [First half-year.]

Professor ANDREWS and Dr. COWLES.

A comparative study of the chief groups of non-vertebrate animals. This may be made a whole course when botany is not needed.

(*b*) Botany. [Second half-year.]

Professors JOHNSON and LIVINGSTON.

The Structure of Root, Stem, Leaf, Flower, and Fruit. [*January to May.*]

An Introduction to Plant Physiology, with selected laboratory experiments. [*After May* 1.]

This is a course for beginners, giving a general survey of the nature and activities of plants, the out-door work serving to give students some familiarity with native plants in the field. This may be made a full course by those desiring it for general culture, or as a preparation for graduate work in botany or for work in forestry.

Elementary Zoology and Botany (Natural History.)

Nine hours weekly, second half-year. Professors ANDREWS and GRAVE.

This course is intended for those having no training in these subjects and is chiefly a laboratory course. It is required of students in groups I, II, III.

It may be made a whole course provided a sufficient number apply.

PHYSIOLOGY

Facilities are offered in the Physiological Laboratory for special students, graduates in medicine and others, who are interested in special lines of investigation, and also for those who wish to follow courses leading to the degree of Doctor of Philosophy in Physiology or allied subjects.

Regular courses of instruction are given as follows:

1. Advanced lectures. Professor HOWELL.
   Irregular intervals. through the year.
2. Journal Club. Professor HOWELL.
   Weekly, through the year.
3. Seminary. Professor HOWELL.
   Weekly, through the year.
4. Physiology of the Animal Body. Professor HOWELL, Dr. HOOKER, and Dr. SNYDER.
   Lectures, three hours weekly, through the year; laboratory, six hours weekly, first half-year.
   [The laboratory course may be repeated in the second half-year.]
5. Advanced Laboratory Work. Professor HOWELL.
   This work is done individually.

GREEK

GREEK SEMINARY

Professor GILDERSLEEVE will conduct the Greek Seminary, the plan of which is based on the continuous study of some leading author or some special department of literature.

The Seminary consists of the director, fellows, and scholars, and such advanced students as shall satisfy the director of their fitness for an active participation in the work by an essay, a critical exercise, or some similar test of attainments and capacity. All graduate students, however, may have the privilege of attending the course.

During the next academic year the study of *Aristophanes and the Old Attic Comedy* will constitute the chief occupation of the members. There will be two meetings a week during the entire session, chiefly for the criticism and interpretation of the author, but auxiliary studies in the literary and political history of the period will also find place in the plan of the Seminary.

ADVANCED AND GRADUATE COURSES

1. Professor Gildersleeve will conduct a course of *Practical Exercises in Greek,* consisting chiefly in translation at dictation from Greek into English and English into Greek, two meetings a week from the beginning of the session to the first of January.

2. He will give a series of *Readings in Aeschylus, Sophocles, and Euripides,* once a week after January 1.

3. He will lecture on select chapters of *Greek Syntax and Greek Style,* once a week after January 1.

Arrangements will be made for the competent guidance of the private reading of advanced students; and a course of lectures on *Greek Metres,* with practical exercises, will be conducted by Associate Professor Miller.

The schedule given above is subject to additions and modifications.

The student should be provided with a complete text of Aristophanes, Bergk's or Meineke's, or Hall and Geldart's (Bibliotheca Oxoniensis), von Velsen's critical edition so far as issued, and Kock's editions of the Knights, Clouds (translated by Humphreys), Birds, and Frogs, and Starkie's Wasps (Macmillan).

It is also desirable that the students should possess some edition of the *Fragmenta Comicorum Graecorum*, if possible Kock's, or, if that should be too expensive (48 marks), Meineke's smaller edition of the fragments, and for the study of the period, Thucydides, Xenophon's Hellenica, and Plutarch's Lives of Pericles and Alcibiades.

UNDERGRADUATE COURSES

1. Xenophon, *Memorabilia* (selections).
   Plato, *Apology*.
   Herodotus (selections).
   Three hours weekly, first year. Associate Professor MILLER.
   Prose Composition.
   One hour weekly, first year. Associate Professor MILLER.
   Private Reading: Plato, *Crito;* Homer, *Odyssey* (two books).

2. Lysias (select orations); Isocrates (selections).
   Euripides (one play).
   Prose Composition.
   Three hours weekly, second year. Associate Professor SPIEKER.
   Private Reading: Xenophon, *Hellenica* (book 1); Euripides, *Cyclops*.

3. Plato, *Protagoras*.
   Lyric Poets.
   Sophocles (one play).
   Survey of Greek Literature.
   Prose Composition.
   Three hours weekly, third year. Associate Professor SPIEKER.
   Private Reading: Elegiac and Iambic Poets; Aeschylus (one play).

4. Thucydides (book VII).
   Lucian (selections).
   Aristophanes, *Frogs*.
   Two hours weekly, fourth year. Associate Professor SPIEKER.

Greek Life: lectures and conferences.
One hour weekly, fourth year. Dr. ROBINSON.
Private Reading: Demosthenes (select orations); Aristophanes, *Clouds*.

5. Aeschylus, Sophocles, Euripides (one play each).
Three hours weekly, through the year. Associate Professor SPIEKER.

Associate Professor SPIEKER offers, for beginners in Greek, a course of three or four hours weekly throughout the year. This course is intended primarily for the benefit of such graduate students of language as may feel the need of a knowledge of Greek in the prosecution of their work; but undergraduate students who have the ministry in view, and who have not had any previous training in Greek, may also be admitted. The class will be advanced as rapidly as is consistent with thoroughness of work.

LATIN

The most important organ of training is the Latin Seminary which meets twice a week throughout the year, under the direction of Professor Smith. It consists of the director, fellows, scholars, and such advanced students as shall give satisfactory proof of their ability and training. Any graduate student is at liberty to attend the Seminary exercises, but each regular member is required to take his turn in the work. Each year some author or group of authors in a given department of literature is made the centre of study. The subjects treated during the last three years are as follows:

1907-1908. The Roman Satire, especially Horace and Juvenal.
1908-1909. The Roman Historians, especially Livy and Tacitus.
1909-1910. The Roman Epic, especially Vergil.

In addition to the regular work of the Seminary, courses of lectures are given every year by the director, and from time to time by other qualified persons.

During the academic year 1910-1911 the attention of the Seminary will be given to the Roman Drama, and the centre of this work will be Plautus and Terence.

Students are requested to provide themselves in advance with complete texts of Plautus (Lindsay, 2 volumes, Oxford Text), Terence (Tyrrell, Oxford Text), *Senecae Tragoediae* (Peiper-Richter, Teubner, 1902), and *Scaenicae Romanorum Poesis Fragmenta* (Ribbeck, 2 volumes, 3d ed., Teubner, 1897-8).

ADVANCED AND GRADUATE COURSES

1.* Professor Smith will lecture once a week, through the year, on the Roman Comedy.

2. During the first half-year he will lecture once a week on the Roman Tragedy from Livius Andronicus to Seneca.

3. During the second half-year he will lecture once a week on Metre and on other topics connected with the formal and stylistic development of the Roman Drama.

4.* Professor Wilson will lecture once a week through the year on Latin Epigraphy. The course will be accompanied by a series of practical exercises in the interpretation of inscriptions from original stones and from published texts.

5. The advanced students will meet once a week through the year for the rapid reading of Plautus, Terence, and Seneca.

UNDERGRADUATE COURSES

1. Livy (selections); Terence (one play); Catullus (selections).

Three hours weekly, through the year. Professor MUSTARD.

Private reading: Cicero, *Cato Maior;* Plautus (one play). Prose Composition.

Weekly, through the year. Professor MUSTARD.

2. Tacitus, *Annals* (selections); Horace, *Odes* and *Epodes.*

Three hours weekly, through the year. Professor MUSTARD.

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*These courses will be given at an afternoon hour for the benefit of those who cannot attend in the morning.

Private reading: Tacitus, *Germania;* Horace, *Satires* and *Epistles* (selections).

Prose Composition: exercises from time to time.

3. Lucretius (selections); Vergil, *Georgics.*

Two hours weekly. through the year. Professor MUSTARD.

Private reading: Cicero, *First Tusculan;* Quintilian (book x).

Roman Literature (with reading of selected passages).

Weekly, through the year. Professor SMITH.

4. Juvenal (selections); Petronius (selections); Apuleius (selections).

Two hours weekly, through the year. Professor WILSON.

Private reading: Martial (selections); Pliny, *Letters* (selections); Roman Elegy (selections).

Roman Life: lectures and conferences.

Weekly, through the year. Professor WILSON.

5. Advanced Latin Composition.

Weekly, through the year. Professor MUSTARD.

NOTE.—Courses 2, 3, and 4 may be taken only by those who have pursued the courses preceding them.

Roman Literature (Course 3) and Roman Life (Course 4), each one hour weekly, are open to all students, and taken together are counted as half a course.

CLASSICAL ARCHAEOLOGY AND ART

The work in Classical Archæology and Art is carried on by means of a Seminary, various courses of lectures, conferences with individual students and practical exercises in the museums. The archæological material in the possession of the university includes good collections of Greek and Roman inscriptions, marbles, bronzes, vases and other terracottas, coins, gems, etc., which not only serve the purpose of illustration, but also form the basis of original investigation. These are supplemented by squeezes, photographs, and lantern slides, as well as by the casts belonging to the university and to the Peabody

Institute. The new Walters Gallery, which is not far from the university, contains a very valuable collection of Greek and Roman antiquities.

SEMINARY AND ADVANCED COURSES

The subjects treated in the Seminary, or presented in lectures, vary from year to year, so that in three or four years of continuous residence students are brought into contact with the principal fields of archæological research. These subjects include Greek and Roman architecture, epigraphy, topography, sculpture, coins, gems, bronzes, and terracottas, private life, Mycenæan civilization, and Greek vase painting. The following courses are offered for the year 1910-11:

1. Archæological Seminary. Selected topics in the Latin inscriptions. Professor WILSON.

Problems in Pausanias. Associate Professor ROBINSON.

Two hours weekly, through the year.

NOTE.—The University collection contains nearly two hundred original inscriptions, extending in date from 500 B. C. to 500 A. D. These, together with casts, squeezes and other reproductions, furnish material for original investigation in this field.

2. The Topography and Monuments of Ancient Rome, with especial reference to the development of the city from the earliest period.

Weekly, through the year. Professor WILSON.

3.* An introduction to Latin Epigraphy, with practical exercises in the interpretation of inscriptions from original stones and published texts.

Weekly, through the year. Professor WILSON.

4. Greek Inscriptions. Lectures with readings from Michel's Recueil, from squeezes, and from original stones.

Weekly, through the year. Associate Professor ROBINSON.

5. Greek Vase Painting. A brief account of the various early wares will be given, but most of the time

*This course will be given at a late hour in the afternoon for the benefit of those who are unable to attend in the morning.

will be devoted to the study of the Attic black-figured and red-figured vases as sources of information on mythology and private life.

Weekly, through the year. Associate Professor ROBINSON.

UNDERGRADUATE COURSES

1. Outlines of Classical Archæology; lectures and conferences.

Three hours weekly. through the year. Professor WILSON and Associate Professor ROBINSON.

This course is intended to furnish a rapid survey of the principal fields of Greek, Etruscan, and Roman archæology and art. Knowledge of Latin and Greek is not required.

2. The Private Life of the Romans.

Weekly, through the year. Professor WILSON.

3. The Private Life of the Greeks.

Weekly, through the year. Associate Professor ROBINSON.

Courses 2 and 3 are parts of Latin 4 and Greek 4, respectively, but may be pursued by any student of the University. Taken together they count as half a course, and with the course in Roman Literature (Latin 3) as a full course.

SANSKRIT AND COMPARATIVE PHILOLOGY

Courses of instruction, directed by Professor Bloomfield, with the assistance of an Instructor or Fellow in Sanskrit, are provided in the Indo-Iranian languages (Vedic and Classical Sanskrit, Pāli and Prākrit, Avestan and Old Persian), in Comparative Grammar of the Indo-European languages, in historical Ethnology of the Indo-European peoples, and in general Linguistic Science. During recent sessions courses in the Lithuanian language and literature were given; these also will continue to form a regular feature of the work of the university.

These courses aim to meet the wants of those who wish to devote themselves to the study of these branches exclusively and for their own sake, *i. e.*, those who wish to become specialists in Sanskrit Philology or Comparative Philology; and also the needs of students of languages in

general, who wish to obtain a broader linguistic basis for special studies in other departments of philology.

The advanced work aims specially to meet the wants of those who wish to make Indian Philology or Comparative Philology their special study. This work centres in the Sanskrit Seminary and not infrequently involves the use of Sanskrit manuscripts.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Sanskrit Seminary for a half-year (one hour a week), is planned, so as to furnish a good knowledge of Classical Sanskrit, and to include an introduction into the dialect of the Vedas. This amount of work represents material sufficient for the first subsidiary subject for the degree of Doctor of Philosophy. A course in the same study for one and a half years, involving two hours a week, is the amount required for a second subsidiary subject leading to the same degree.

A synopsis of the courses offered during past years may be presented under the following heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology and the history of religions.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Indo-European accentuation; comparative study of Greek, Latin, Sanskrit, and Teutonic, including vocalism, consonantism, noun-formation, and inflections.

III. The Vedic, Sanskrit, and Prākrit dialects; Rig-Veda; Atharva-Veda; literature of the Brāhmanas and Upanishads. The law books of Manu and Yājñavalkya; the Drama Çakuntalā and introduction into Prākrit; Hitopadeça, Kathāsaritsāgara, and Nala. Sanskrit grammar and prose composition.

IV. The Pāli language and Buddhist literature.

V. The Avestan language and the sacred books of the Avesta.

VI. The Lithuanian language and literature.

The following courses, in charge of Professor Bloomfield, will be given during the session of 1910-1911:

A. *Linguistic Science and Comparative Grammar of the Indo-European Languages.*

1. The elements of Linguistic Science, with an account of the Ethnology and Religions of the Indo-European peoples. *Weekly, through the year.*

2. Comparative grammar of the more familiar Indo-European languages (Greek, Latin, German, and Sanskrit): The history of the vowels and their interrelations (*ablaut*). *Weekly, through the year.*

B. *Indo-Aryan Philology.*

3. Vedic Seminary: The literature of the Rig-Veda. *Weekly, through the year.*

4. The Elements of Vedic philology: Vedic grammar, metres, and interpretation of selected hymns of the Rig-Veda. *Weekly, second half-year.*

5. The Pāli language and selections from Buddhist literature. *Weekly, through the year.*

6. Beginners' course in Sanskrit: grammar (Whitney's Sanskrit Grammar) and interpretation of an easy text (Lanman's Reader). *Twice weekly, through the year.*

7. Selections from the Hitopadeça and the Law-Book of Manu (second year's course in Classical Sanskrit). *Twice weekly, first half-year.*

C. *Other Indo-European Languages.*

8. Introduction to the Lithuanian Language and Literature. *Weekly, through the year.*

NOTE.—No knowledge of Sanskrit is presupposed for courses 1, 2, 6 and 8. Course 1 sketches briefly the history of the Science of Language; presents a systematic account of the ethnology and religions of the indo-European peoples; deals with the principles that govern the life and growth of language, and finally treats of the origin of language. Course 2 is intended as an elementary introduction into the methods and results of the Comparative Grammar of the more important Indo-European languages.

Oriental Seminary

The various courses are adapted to the requirements of four classes of students, namely: (*a*) students of theology wishing to obtain a thorough acquaintance with the sacred tongue and its sister idioms as a means of elucidating Scripture and problems of the comparative history of religion; (*b*) students of linguistics intending to make comparative grammar of the Semitic languages their specialty; (*c*) students of Oriental history and archæology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern Arabic, Turkish, Persian, modern Hebrew, Amharic, Malay, Tagalog, etc.) for practical purposes.

A room has been set apart containing a well-equipped working library for all the branches of Oriental research (including the library of the late Professor A. Dillmann, of Berlin, the Leopold Strouse Semitic Library, a special collection of works on Philippine dialects, etc.), and some advanced students are usually present to help in the preparation for the recitations conducted by the Director of the Seminary, and to furnish any other aid that may be desired. Near the Dillmann Library, on the same floor, are some archæological and antiquarian collections, including the Cohen Collection of Egyptian Antiquities, the Sonneborn Collection of Jewish Ceremonial Objects, collections of Hebrew and other Oriental manuscripts, Babylonian seal-cylinders and clay tablets, etc.

The following courses are offered for the academic year, 1910-11:

Oriental History, Literature, and Archaeology

1. History of the Ancient East (Egypt, Babylonia, Assyria, Persia, Israel, and Judah). Professor Johnston. *Saturday,* 11 *a. m.*

2. Biblical Archæology. Professor JOHNSTON. *Saturday,* 12 *m.*

3. Lectures on the Talmud. Dr. ROSENAU. *Friday,* 3 *p. m.*

4. The Literature of the Old Testament (with special reference to date and authorship). Dr. ROSENAU. *Thursday,* 5 *p. m.*

5. Interpretation of Selected Chapters of the Old Testament (on the basis of the Authorized Version). Professor HAUPT and Dr. BLAKE. *Friday,* 5 *p. m.*

Biblical Philology

6. Elementary Hebrew. Dr. EMBER. *Three hours weekly.*

7. Hebrew: Second Year's Course. Dr. BLAKE. *Two hours weekly.*

8. Hebrew Phonology. Dr. BLAKE. *Thursday,* 3 *p. m.*

9. Unpointed Hebrew Texts. Dr. ROSENAU. *Monday,* 11 *a. m.*

10. Prose Composition (Hebrew, Arabic, Assyrian, and Sumerian). Professor HAUPT. *Monday,* 4 *p. m.*

11. Comparative Semitic Grammar. Professor HAUPT. *Monday,* 3 *p. m.*

12. Old Testament Seminary (Critical Interpretation of the Books of Joel, Habakkuk, and Zephaniah). Professor HAUPT. *Tuesday,* 4 *to* 6 *p. m.*

13. Cursory Reading of the Hebrew Bible. Dr. EMBER. *Monday,* 5 *p. m.*

14. Post-Biblical Hebrew. (Selections from the Mishnah and the Talmud; Rabbinical Commentaries on the Bible). Dr. ROSENAU. *Monday,* 10 *a. m.,* 12 *m., and* 2 *p. m.*

15. Medieval Hebrew Poetry. Dr. EMBER. *Friday,* 10 *a. m.*

16. Jewish Philosophers of the Middle Ages. Dr. ROSENAU. *Monday,* 9 *a. m.*

17. Modern Hebrew. Dr. EMBER. *Tuesday,* 11 *a. m.*

18. Hebrew Conversation. Dr. EMBER. *Friday,* 9 *a. m., Tuesday,* 10 *a. m.*

19. Biblical Aramaic Grammar and Interpretation of the Aramaic Portions of the Book of Daniel. Dr. BLAKE. *Friday,* 4 *p. m.*

Syriac

20. Syriac (Roediger's Chrestomathy). Dr. BLAKE. *Friday,* 3 *p. m.*

Arabic

21. Elementary Arabic (with special reference to students of Romance Languages). Dr. EMBER. *Friday,* 12 *m.*

22. Arabic for Beginners (with special reference to students of Hebrew). Dr. EMBER. *Monday and Wednesday,* 9 *a. m.*

23. Extracts from the Arabian Nights. Professor JOHNSTON. *Thursday,* 10 *a. m.*

24. Selections from Maimonides. Dr. EMBER. *Friday,* 9 *a. m.*

25. Arabic Prose Composition. Professor HAUPT. [See No. 10.]

Ethiopic

26. Ethiopic (Dillmann's Chrestomathy). Dr. BLAKE. *Wednesday,* 4 *p. m.*

Assyriology

27. Assyrian for Beginners. Dr. BLAKE. *Wednesday,* 3 *p. m.*

28. Selected Assyrian Letters. Professor JOHNSTON. *Thursday,* 11 *a. m.*

29. Sumerian (Selected Bilingual Hymns). Professor HAUPT. *Monday,* 5 *p. m.*

30. Assyrian and Sumerian Prose Composition. Professor HAUPT. [See No. 10.]

Egyptology

31. Egyptian for Beginners. Professor JOHNSTON. *Friday,* 11 *a. m.*

32. Selected Hieroglyphic Texts. Professor JOHNSTON. *Friday,* 10 *a. m.*

Malayo-Polynesian Philology

33. Malay. Dr. BLAKE. *Monday,* 4 *p. m.*

34. Elementary Tagalog. Dr. BLAKE. *Monday,* 5 *p. m.*

Journal Meeting

35. Journal Meeting. Professor HAUPT. *Tuesday,* 3 *p. m.*

ENGLISH

GRADUATE COURSES

In the graduate courses the subject of English is studied with reference to the historical and technical aspects of linguistic and literary science. The usual sequence of courses enables a student, in three or four years, to study with precision the important departments of grammar and of literature, and to become trained in the process of original investigation. Instruction is imparted by lectures, by freer conferences, by the methods of the Seminary, and by class-room recitation.

A Journal Club is conducted for the purpose of supplementing the regular courses with reports of the current work of scholars.

1. *English Seminary*

Graduate students are admitted to the Seminary as soon as they have satisfied initial requirements for independent research.

In the academic year 1910-11, the Seminary will be engaged in the study and investigation of the following subjects:

(*a*) English Poetry from Wordsworth to Tennyson. *First half-year.*

(*b*) The English Drama before Shakespeare. *Second half-year.*

The Seminary will be conducted by Professor BRIGHT. *Tuesday and Thursday,* 3-5 *p. m.*

2. Lectures on Historical Grammar, Versification, and Literary Criticism. Professor BRIGHT. *Monday,* 11 *a. m.*

3. Interpretation of selected texts. Professor BRIGHT. *Tuesday and Thursday,* 12 *m.*

4. The Journal Club of the English Seminary. Professor BRIGHT. *Alternate Fridays,* 3-5 *p. m.*

5. Additional courses in literature by Professor BROWNE and others will be announced later.

UNDERGRADUATE COURSES

Introductory courses in (*a*) Rhetoric and English Composition, (*b*) Platform Speaking and Forensics, and (*c*) English Literature, are prescribed for all undergraduate students. For those who may wish to continue their study in any of these departments, elective courses are provided in the various forms of discourse and in the

more important periods of English and American literature. Further practice in debating is provided in connection with the elective course in exposition and argument, and in the annual inter-class and inter-collegiate debates.

English Composition

1. Rhetoric and English Composition.

Theory based upon text-books, lectures, and discussions; critical study of prose writers; frequent practice in writing. This course is prescribed during the first year.

Three hours weekly, through the year. Dr. FRENCH and Mr. C. A. MYERS.

1*a*. English Composition.

This course is prescribed during the second year. Students who have attained a mark of "8" on the work of the first year are excused from this course.

One hour a week, through the year. Mr. C. A. MYERS.

2. Description and Narration.

Readings in standard prose. Practice in writing.

One hour a week, through the year. Professor GREENE.

3. Exposition and Argument.

During the first term, the theory of exposition with frequent practice in expository writing. During the second and third terms, the theory of argument; practice in writing; platform speaking and debate.

Two hours weekly, through the year. Dr. FRENCH.

Public Speaking

1. Reading and Platform Speaking.

In this course attention is paid to correct habits of breathing and to enunciation and expression. The course is prescribed during the second year.

One hour a week, through the year. Dr. FRENCH.

2. Public Speaking.

The principles of argumentation; practice in argumentative writing and in debate; parliamentary procedure. This course is prescribed during the third year.

One hour a week, through the year. Dr. FRENCH.

NOTE.—Additional practice in platform speaking and in debate is provided in English Composition 3. A more specific statement respecting these courses is made on page ——

English Literature

1. English Literature: introductory course.

The class will become acquainted with the course of English Literature from the seventh century until about 1600. Much of the poetry of Chaucer, Spenser, and Shakespeare will be read in the class-room and in private reading. This course is prescribed during the second year.

Three hours weekly, through the year. Professor GREENE.

2. English Literature, 1600-1744.

First half-year: English Literature from 1600 to 1660; special attention will be given to the English Bible and to the works of Bacon and Milton.

Second half-year: From the Restoration to the death of Pope (1660-1744); the work will centre upon the writings of Dryden, Addison, Steele, Swift, and Pope.

Three hours weekly, through the year. Professor GREENE.

3. English Literature, 1798-1892.

First half-year: English Literature from the publication of the *Lyrical Ballads* to the death of Coleridge (1798-1834); the work will centre upon the writings of Wordsworth, Coleridge, Keats, Shelley, Byron, and Scott.

Second half-year: Tennyson and Browning; novelists and essayists since 1832.

Three hours weekly, through the year. Professor GREENE.

4. American Literature.

Literary history in outline; critical study of selected authors; written reports on assigned reading.

Two hours weekly, through the year. Dr. FRENCH.

5. English Literature. (Third Year of Group II).

First half-year: The Caroline and "classical" periods in English Literature, 1625 to 1770.

Second half-year: The period of the romantic reaction in English Literature, 1770 to recent times.

Three hours weekly, through the year. Professor BROWNE.

6. English. (Fourth Year of Group II).

First half-year: Anglo-Saxon.

Second half-year: Middle English and Early Scottish Poets.

Three hours weekly, through the year. Professor BRIGHT and Professor BROWNE.

GERMAN

Under this head are included German Language and Literature and subjects in the wider field of Germanic Philology. Regular instruction, through seminary and lectures, is given in German Literature and in Gothic,

Comparative Germanic Grammar, Old High German, and Middle High German; while occasional courses are offered in Old Norse, Old Saxon, and Old Frisian.

ADVANCED COURSES

Seminary

The library of the German Seminary, to which all advanced students have the fullest access, is open Mondays to Fridays from 9 a. m. to 5 p. m., and Saturdays from 9 a. m. to 1 p. m. The Seminary treats, in successive half-years, some theme from the period of German Classicism or Romanticism, and a subject from the literature of Middle High German. During the year 1910-11 the Seminary will meet three times weekly. The subject for the first half-year will be the period of "Storm and Stress" in German Literature (1772-1785). During the second half-year, the German Courtly Lyrics (Minnesong) of the Twelfth and Thirteenth Centuries will be studied. The Seminary will be conducted by Professor Wood.

Students are requested to procure *Deutsche Nationallitteratur*, hrsg. Jos. Kürschner, Bde. 79-81 (*Stürmer und Dränger*), and Bd. 107 (*Goethes Kleine Jugendschriften in Prosa*); *Minnesangs Frühling*, hrsg. von Lachmann und Haupt, 4. Auflage, Leipzig, 1888.

Germanic Society

The Germanic Society, which includes as members all the instructors and advanced students in German, meets fortnightly. Before it are presented not only reports on articles in current journals, but also successive results of studies by the members. The chief object of the Society is to foster and guide the aptitude for more sustained individual investigation than the collective work of the Seminary offers scope for.

Lectures

1. Gothic and the elements of Comparative Germanic Grammar.

Professor COLLITZ. *Two hours weekly, through the year.*

Students are requested to procure Braune, *Gotische Grammatik*, 7. Auflage, Halle, 1909.

2. Introduction to the study of Germanic Philology.

Professor COLLITZ. *Weekly, through the year.*

A brief survey of the various Germanic languages from an historical and comparative point of view will be given. This will be followed by a discussion of the aims and the method of Germanic Philology.

3. Old High German (Introductory Course).

Professor COLLITZ. *Weekly, first half-year.*

Students should procure Braune, *Abriss der Althochdeutschen Grammatik*, 4. Auflage, Halle, 1906, and the same author's *Althochdeutsches Lesebuch*, 6. Auflage, Halle, 1907.

4. Old High German Texts.

Professor COLLITZ. *Weekly, second half-year.*

Critical reading of specimens selected from Braune, *Althochdeutsches Lesebuch.*

5. Middle High German (Introductory Course).

Professor COLLITZ. *Twice weekly, first half-year.*

Paul, *Mittelhochdeutsche Grammatik*, 7. Auflage, Halle, 1908; Bachmann, *Mittelhochdeutsches Lesebuch*, 4. Auflage, Zürich, 1909.

6. The Beginnings of Modern German Classicism.

Professor WOOD. *Twice weekly, first half-year.*

The period in German Literature from 1750 to Goethe's Italian Journey (1786) will be studied. The authors to receive the chief share of attention will be Wieland, Klopstock, Lessing and Herder.

7. The German Chap-Books of Eulenspiegel and Faust.

Professor WOOD. *Twice weekly, first half-year.*

The particular subject treated will be the development of the "Schalksnarr," vagabond and "Wunderdoktor" into typical and national figures, in the legends of Tyll Eulenspiegel, Faust and Münchhausen. The literary results of the evolution will then be examined in the Faust-play, in Simplicissimus, Immermann and de Coster.

Students are requested to procure *Deutsche Nationallitteratur*, hrsg. Jos. Kürschner, Bde. 25, 33, 160 Teile 1 und 2 (*Volksbücher des sechzehnten Jahrhunderts, Grimmelshausen I., Immermanns Schriften I.*), and Charles de Coster, *Tyll Ulenspiegel*, Deutsch von Fried. von Oppeln-Bronikowski, Jena, 1909.

8. The Swabian Poets, their allies and opponents.

Professor Wood. *Twice weekly, second half-year.*

After studying Uhland and Justinus Kerner, that part of Jung Deutschland will be considered, which was particularly opposed to the Swabians (Heine, Börne). Lenau and Platen, as participants in the feud, will also claim a share of attention.

9. The Elegy in German Literature.

Dr. Roulston. *Weekly.*

Special Courses

*1. Scientific German. Dr. Kurrelmeyer.

Two hours weekly, through the year.

*2. Historical German. Dr. Roulston.

Two hours weekly, through the year.

3. German Conversation. Mr. Hofmann.

Weekly, through the year.

UNDERGRADUATE COURSES

German Elements.

Vos, Essentials of German; Gerstäcker, *Germelshausen;* Keller, *Kleider machen Leute;* Wilhelmi, *Einer muss heiraten;* von Wildenbruch, *Das edle Blut;* Prose Composition; Grammar.

Four hours weekly, through the year. Dr. Kurrelmeyer.

This course is intended only for students who have matriculated in Greek. For such students, it absolves the requirements in German for the baccalaureate degree; other students must absolve course 1.

German 1.

Modern Prose Readings: C. F. Meyer, von Saar, Fulda, Keller, Sudermann.

Three hours weekly, through the year. Dr. Roulston.

In case of necessity, this class will meet in two sections.

Prose Composition.

Weekly, through the year. Professor Wood.

Private Reading.

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*Courses 1 and 2 are for graduates who lack the ability to read German at sight.

German 2.

Classical Authors: Schiller, *Maria Stuart, Die Braut von Messina;* Goethe, *Hermann und Dorothea.*

Twice weekly, through the year. Dr. ROULSTON.

Prose Composition.

Weekly, through the year. Dr. ROULSTON.

Private Reading.

German 3.

Goethe, *Faust, Tasso, Iphigenie.*

Two hours weekly, through the year. Professor WOOD.

History of Literature (Classical Period). Lyrics and Ballads.

Weekly, through the year. Dr. ROULSTON.

The work in Goethe and in the History of Literature, etc., may be taken separately.

German 4.

Contemporary Literature, in rapid readings.

Three hours weekly, through the year. Dr. KURRELMEYER.

German 5.

Historical Readings.

Schiller, *Der dreissigjährige Krieg;* Freytag, *Aus dem Jahrhundert der grossen Krieges;* von Sybel, *Die Erhebung Europas.*

Two hours weekly, through the year. Dr. ROULSTON.

German 6.

Scientific German.

Lassar-Cohn, *Die Chemie im täglichen Leben;* von Helmholtz, *Ueber Goethes naturwissenschaftliche Arbeiten;* Walther, *Allgemeine Meereskunde.*

Two hours weekly, through the year. Dr. KURRELMEYER.

This course is open to students who have completed Course 1.

German 7.

German Conversation.

Weekly, through the year. Mr. HOFMANN.

Romance Languages

The department of Romance Languages offers facilities for work in manuscript sources and palæography, in literature (old and modern), in language (phonetics, morphology, history, syntax, dialects), and in Popular Latin. For students who desire the degree of Doctor of Philosophy, three years are usually required. The work is confined almost entirely to the three principal Romance languages (French, Spanish, and Italian), in all of which special attention is paid to the origins.

Instruction is given in lectures and regular class exercises, the former being supplemented by subjects for special investigation assigned to the student. For each of the languages noted above, a seminary meeting is held once a week. In French the seminary for the old literature alternates with that for the modern literature. A meeting of the Romance Club is also held weekly, at which original papers are read and reviews of recent journals presented.

Advanced Courses

French

Seminary: Old French Literature (Marie de France; Work on Manuscripts).
Professor Elliott. *Two hours fortnightly.*

Seminary: Modern French Literature.
Associate Professor Terracher. *Two hours fortnightly.*

Lectures in Modern French Literature.
Associate Professor Terracher. [*Subjects to be announced later.*]

French Classics.
Associate Professor Brush. *Weekly.*

Marie de France: Bisclavret.
Professor Elliott. *Two hours fortnightly.*

Readings in Old French Literature: *Class A* (Romans d'Aventure).
Professor Armstrong. *Weekly.*

Readings in Old French Literature: *Class B* (Epic).
Professor Armstrong. *Weekly.*

French Syntax: Adjective and Verb.
Professor ARMSTRONG. *Two hours weekly.*
French Phonology and Morphology.
Professor ARMSTRONG. *Three hours weekly.*
French Phonetics.
Professor ARMSTRONG. *Weekly.*
French Dialects.
Professor ELLIOTT. *Weekly.*
French Palæography.
Dr. KEIDEL. *Weekly.*

Spanish

Spanish Seminary: Gil Vicente.
Professor MARDEN. *Two hours weekly.*
The Spanish Drama of the Sixteenth Century.
Professor MARDEN. *Weekly.*
Readings in Old Spanish Literature.
Professor MARDEN. *Weekly.*
Spanish Historical Grammar.
Professor MARDEN. *Weekly.*

Italian

Dante and the Divine Comedy.
Professor ELLIOTT. *Weekly.*
Italian Seminary: The *Inferno* of Dante.
Dr. SHAW. *Two hours weekly.*
Italian Phonology and Morphology.
Dr. SHAW. *Two hours weekly.*
The Poetry of the "Dolce Stil Nuovo."
Dr. SHAW. *Weekly.*

General

Romance Club.
Weekly.
Popular Latin.
Professor ELLIOTT. *Weekly.*
History of Mediæval Fable Literature.
Dr. KEIDEL. *Weekly, first half-year.*
Mediæval Sources.
Dr. KEIDEL. *Weekly, second half-year.*
Methodology of the Romance Languages.
Dr. KEIDEL. *Weekly.*

UNDERGRADUATE COURSES

French

French Elements.

a. The Essentials of Grammar. Fraser and Squair, *French Grammar, Part I.*

b. Easy French Texts. Verne, *Les Enfants du Capitaine Grant;* Labiche, *La Grammaire;* About, *La Mère de la Marquise;* Pailleron, *l'Etincelle;* Augier, *Le Gendre de M. Poirier.*

Four hours weekly, through the year. Mr. AUSTIN.

This course is intended only for students who have matriculated in Greek, and have fully met *at entrance* the matriculation requirements; for such students, it absolves the requirements in French for the baccalaureate degree. Other students must take French 1.

French 1 (*Intermediate Course*).

a. Modern French Prose Writers: Dumas, Daudet, Coppée, Maupassant, Mérimée, Labiche and Martin, Augier, Theuriet, Balzac. Classics: Corneille, *Le Cid;* Molière, *Les Précieuses ridicules, l'Avare.*

b. Grammar and composition based on a French text. Exercises in pronunciation and dictation.

c. Private reading: Fortier, *Histoire de France;* Lamartine, *Scènes de la Révolution française;* Lafontaine, *Fables.*

Four hours weekly, through the year. Associate Professor BRUSH and Mr. AUSTIN.

French 2 (*Advanced Course*).

a. The Nineteenth Century. Readings from Hugo, Lamartine, Gautier, Alfred de Vigny, Alfred de Musset, Balzac, Flaubert, Zola, Taine, France, Loti, Bazin. Canfield's *French Lyrics.*

b. Prose composition; dictation.

c. Lectures on French literature and on French life.

d, Private reading.

Three hours weekly, through the year. Associate Professor BRUSH.

French 3.

Classics of the Seventeenth and Eighteenth Centuries. Readings from Corneille, Racine, Molière, Voltaire, Rousseau, and Warren's *French Prose of the Seventeenth Century.*

Two hours weekly, through the year. Associate Professor BRUSH.

French 4.

Epochs of French Literature.

Lectures; private reading.

Two hours weekly, through the year. Associate Professor BRUSH.

This course will be conducted in French.

French 5.

Advanced Composition.

Weekly, through the year. Professor ARMSTRONG.

Spanish

1. Hills and Ford, *Spanish Grammar;* Prose Composition; Isla, *Gil Blas;* Alarcón, *El Capitán Veneno;* Peréz Galdós, *Doña Perfecta.*

Three hours weekly, through the year. Professor MARDEN.

This course is adapted to beginners.

2. Alarcón, *La verdad sospechosa;* Calderón, *La vida es sueño;* Téllez, *Don Gil de las calzas verdes;* Cervantes, *Don Quixote.*

Grammar and Prose Composition.

History of Spanish Literature.

Three hours weekly, through the year. Professor MARDEN.

This course is open to students who have completed Course 1 or its equivalent.

Italian

1. Grandgent, *Italian Grammar;* Marinoni: *Italian Reader;* Fogazzaro, *Pereat Rochus;* De Amicis, *La Vita Militare.*

Three hours weekly, through the year. Dr. SHAW.

2. Grandgent, *Italian Grammar, Italian Composition.* Selections from classic authors. A text-book of Italian Literature.

Three hours weekly, through the year. Dr. SHAW.

History

Facilities for research are offered in the principal fields of history. Special attention is given to methods of investigation and each advanced student comes under the personal direction of the instructors in his chosen field. This supervision is obtained through seminary meetings and frequent private consultation.

In addition to the library of the university, students make use of the admirable collections of source material in the Peabody Library and the Maryland Historical Society, and are in constant touch with the great resources of the Library of Congress and the departments in Washington. The university library has recently received large and important accessions of historical works and documentary material.

GRADUATE COURSES

European History. The courses in European History direct attention to the social, economic, and constitutional development of European peoples. The subjects follow in consecutive order, the topics for each year forming a complete and independent group. The series requires three years for completion and offers opportunities for close study of selected portions of the mediæval and early modern history of the Continent. A weekly seminary is held for the study of problems in European history and institutions.

Courses in Latin palæography and in French palæography are given in their respective departments.

English History. The constitutional and social history of England is treated in connection with the corresponding periods in European history. A part of the seminary work is devoted to problems in this field and direction is given to further special research. A separate course is provided for the historical development of English common and statute law.

American History. The courses in American History begin with the history of British colonization in America and deal with the constitutional and economic growth of the colonies and the constitutional and political history of the United States after 1783. A weekly seminary is held for research in special subjects in American History.

Ancient History. The courses in Ancient History take into consideration the constitutional, social, artistic, and economic development of the peoples of Greece and Italy. Special attention is given to the historical evidence furnished by epigraphy and archæology. The constitutional history of Greece and Rome is supplemented by lectures on the Roman Law. Certain portions of Oriental History are treated in the departments of Semitics and Sanskrit.

Special Lectures. The Albert Shaw Lectures on Diplomatic History are given annually by investigators in selected fields of American and foreign relations. The scope of the lectures is not confined to the United States, but lectures on European diplomatic history will also find their due place.

The James Schouler Lectures on History and Political Science are given annually by lecturers of prominence, upon topics indicated in the title of the lectureship. These lectures are open to the public as well as to the students and members of the University. The course for 1909 was given by Dr. Abbott Lawrence Lowell, President of Harvard University, and that for 1910 by George Walter Prothero, Litt. D., formerly professor of history in the University of Edinburgh, now editor of the *Quarterly Review* and Honorary Fellow of Queen's College, Cambridge. The lecturer for 1911 will be Professor John Bassett Moore, of Columbia University.

Other lectures of interest to the students of this department, either open to the public or designed for class instruction, are given from time to time by distinguished scholars outside the University. These lectures are, in

part, provided for from the income of the fund bequeathed by the late Professor Herbert B. Adams.

Historical and Political Science Association. This monthly meeting of the instructors and students of the departments of History, Political Economy, and Political Science affords an opportunity to hear addresses from prominent specialists, to consider important movements and undertakings, and to present critical reviews of recent publications in the fields of history, political economy, and political science.

For the year 1910-11 the courses will be as follows:–

Professor VINCENT.

1. Early Mediæval History of Europe.

The study of the origins of the nations of Western Europe, giving emphasis to their social institutions and economic development.

Two hours weekly, through the year.

2. Theory and practice of Historical Method.

One hour weekly, through the year.

3. Seminary in European and English History.

Two hours, alternate weeks.

Associate Professor BALLAGH.

1. History of the United States, 1830-1860.

Two hours weekly, first half-year.

2. History of American Slavery.

Two hours weekly, second half-year.

3. Seminary in American History.

Two hours, alternate weeks.

Dr. MAGOFFIN.

1. History of Greece to 338 B. C.

One hour weekly, through the year.

2. History of Rome and Italy to 133 B. C.

One hour weekly, through the year.

UNDERGRADUATE COURSES

1. History of Greece and Rome.

The political and constitutional history of Greece and Rome, approached through the translated texts of Herodotus, Thucydides, Suetonius, Tacitus, and others, with the aid of modern authorities.

Three hours weekly, through the year. Dr. MAGOFFIN.

2. European History (General History).

From the decline of the Roman Empire to the nineteenth century, dealing with the Romano-Barbarian kingdoms, the empire of Charles the Great, feudalism, the crusades, empire and papacy, renaissance, the Protestant revolution, the religious wars, eighteenth century states and the doctrine of the balance of power, the French Revolution, the Napoleonic period, and the reorganization of Europe in the nineteenth century.

Three hours weekly, through the year. Professor VINCENT.

3. English History.

Chiefly constitutional and political, dealing with the origins and development of parliamentary institutions, the relations of England with continental Europe, and the modern expansion of the British Empire. Open to students who have had, or are taking, History 2 or Political Economy 1.

Three hours weekly, through the year.

4. American History.

Colonial history and institutions, the formation of the Union, the development of constitutional government and law, the growth of foreign policy, the expansion of the nation. Emphasis will be laid on the national period, and the subject will be brought to the close of the nineteenth century. Open to students who have had History 2 and 3 or Political Economy 1.

Three hours weekly, through the year. Associate Professor BALLAGH.

The History courses begin in the second year of the college work. Students in Group III will at that time begin with course 1, and in the third year will be expected to take both 2 and 3. Course 4 completes the plan of instruction in History, and students of Group III who have had courses 2 and 3 are advised to take this in the fourth year.

Political Economy

GRADUATE COURSES

The graduate instruction in Political Economy is designed primarily to meet the needs of advanced students preparing for a professional career in economic science. The courses afford systematic instruction in general economic principles, intimate acquaintance with special fields of economic activity, and, most important of all, knowledge of and ability to employ sound methods of economic research. The work centres in the Economic Seminary, the membership of which is limited to the most advanced students, and the primary design of which is to develop scientific research in economic study and investigation.

Formal graduate instruction is offered in Economic Theory and in Applied Economics, by parallel courses of lectures throughout the year. The particular topics treated vary from year to year. In 1908-09 Professor Hollander lectured two hours weekly on economic thought before Adam Smith, and two hours weekly on the theory and practice of exchange. During the year 1909-10 attention was given, in the course on economic theory, to the economic system of David Ricardo. In the course on applied economics, careful study was made of the history and theory of taxation. Associate Professor Barnett lectured during the first half-year on the development of factory legislation and during the second half-year on the legal position of trade unions. Special courses of lectures were given during the year by Mr. John M. Glenn, Director of the Russell Sage Foundation, on "Problems of Relief;" by Mr. Logan G. McPherson, of New York, on "Railway Transportation;" by Dr. James Bonar, Deputy

Master of the Canadian Mint, on "Justice and Distribution."

The courses offered for 1910-11 are as follows:

1. The Economic Seminary.

Two hours weekly, through the year. Professor HOLLANDER and Associate Professor BARNETT.

The work of the year will continue to be a systematic study of the history, structure, and activities of labor organizations in the United States.

2. The Principles of Political Economy.

Two hours weekly, through the year. Professor HOLLANDER.

During the first half-year, attention will be paid to the proper method of economic inquiry; during the second half-year the fundamental theories of the science will be subjected to critical examination. Representative texts will be assigned for reading and study.

3. Municipal Finance.

Two hours weekly, through the year. Professor HOLLANDER.

During the first half-year, the historical development of American local finance will be studied; during the second half-year, attention will be paid to the present fiscal problems of the American city.

4. Industrial Corporations.

One hour weekly, through the year. Associate Professor BARNETT.

During the first half-year attention will be given to the history of the industrial corporation and to its position in modern economic organization; during the second half-year a detailed study will be made of the administration and financing of industrial corporations.

Special courses of lectures will be given by non-resident lecturers upon such practical economic problems as charities and correction, railway transportation, industrial organization.

A reading class is organized yearly by the more advanced students of the department for the co-operative study of economic texts and for the critical discussion of current economic literature.

In co-operation with the departments of history and political science, opportunity is offered in the Historical and Political Science Association for the presentation and discussion of original papers in economic science by instructors and invited speakers, and for the review by students of current publications of importance in these fields.

UNDERGRADUATE COURSES

1. (*a*) Economic History.

The economic development of England from the tenth century to the present time and the most important experiences of the United States are studied.

Three hours weekly, first half-year. Associate Professor BARNETT.

(*b*) Elements of Economics.

Particular attention is given to the theory of distribution and its application to leading economic problems.

Three hours weekly, second half-year. Associate Professor BARNETT.

2. (*a*) Finance.

The theory and practice of finance are considered, with particular reference to problems of taxation as presented in the experience of the United States.

Three hours weekly, first half-year. Professor HOLLANDER.

(*b*) Money and Banking.

The principles of monetary science are taught with reference to practical conditions in modern systems of currency, banking, and credit.

Three hours weekly, second half-year. Professor HOLLANDER.

3. (*a*) Statistical Methods.

After a preliminary study of the value and place of statistics as an instrument of investigation, attention is directed to the chief methods used in statistical inquiry.

Three hours weekly, first half-year. Associate Professor BARNETT.

(*b*) Economic Institutions.

Labor unions, corporations, and trusts are studied primarily as elements in the organization of industry.

Three hours weekly, second half-year. Associate Professor BARNETT.

NOTE.—Undergraduate course 2 is open only to such students as have completed course 1; and, save under exceptional circumstances, course 3 only to students who have completed 1 and 2.

Political Science

GRADUATE COURSES

The graduate work in Political Science has for its aim the preparation of advanced students for professional and original work in the fields of Constitutional Law, International Law and Diplomacy, and Political Philosophy. It seeks also to supply the necessary training for those desiring to enter the higher branches of the public service, and to furnish a broad and philosophical equipment to those who expect later to pursue the study and practice of the law.

Seminary

In addition to the Historical and Political Science Association, at which the students of the departments of History, Economics, and Political Science meet jointly for the presentation of papers by the instructors and by invited speakers, a fortnightly Seminary is conducted by Professor Willoughby, at which reports upon special subjects are read by the students and discussed.

Journal Club

A weekly meeting of the advanced students, under the direction of Professor Willoughby, is held for the discussion of current political literature—books and periodicals.

Lectures

The lectures are so arranged as to give three or more years of continuous instruction, covering the following subjects: The Theory of the State (being a general introduction to the study of Constitutional and International Law), Foreign Constitutional Law, United States Constitutional Law, the Legal Aspects of Economic and

Industrial Problems, the History of Political Theories and of Political Literature, and Historical Jurisprudence.

During the year 1910-11 the following courses will be given:

1. United States Constitutional Law. Professor WILLOUGHBY.

Two hours weekly, through the year. [Extending over three years.]

2. Political Theories and Political Literature in England since 1688. Professor WILLOUGHBY.

One hour weekly, first half-year.

3. Political Theories and Political Literature in France since 1750. Professor WILLOUGHBY.

One hour weekly, second half-year.

4. Principles of International Law. Dr. J. B. SCOTT.

One hour weekly, through the year.

5. Historical Development of the English Law. Dr. STEINER.

One hour weekly, through the year.

This course is a continuation of the one given in 1909-10, and will deal with the development of the substantive principles of the Common Law.

Undergraduate instruction in Political Science is given in the departments of History and Economics.

Philosophy, Psychology, and Education

Graduate Courses

The graduate work of the department takes different directions according as the chief interest of the student lies in the field of Philosophy, in Experimental and Comparative Psychology, or in Education. The primary aim of the department is to provide special training in the methods of philosophical inquiry and psychological research, and in their application to the problems of educational theory and practice.

In Philosophy, opportunity is offered for specialization in systematic philosophy, history of philosophy, and ethics. In Psychology, the fields of human and animal psychology are represented in courses for training and for research. In Education, the work recognizes the bearing of the historical and theoretical material upon present practical problems.

The program of the individual student during his first and second years, is adapted, so far as possible, to his special needs and future aims as teacher or investigator. In the third year the student concentrates, in the seminary and laboratory courses, upon the topic of his dissertation.

1. Graduate Conference. A conference composed of all the instructors and university students meets fortnightly. Papers are read, and reports on the progress of work, reviews of books, etc., are presented for general information and criticism. Each member of the department is expected to contribute to the work of the Conference.

2. The Conception of Evolution.

Professor Lovejoy. *Two hours a week, through the year.*

This course will consist of a historical and analytical inquiry into the meaning and the bearings upon epistemology, ethics, and metaphysics of the general notion of

temporal Becoming, and of certain modern theories of cosmic and organic evolution.

3. Systematic Ethical Theory.
Professor LOVEJOY. *Two hours a week, through the year.*

4. Continental Philosophy from Descartes to Kant.
Professor GRIFFIN. *One hour a week, through the year.*

5. English Ethics of the last half-century.
Professor GRIFFIN. *One hour a week, through the year.*

6. Modern Pantheism and Pessimism: Schopenhauer's World as Will and Idea.
Professor BUCHNER. *One hour a week, through the year.*

7. Readings in German Philosophy. Text to be selected.
Professor BUCHNER. *One hour a week, through the year.*

8. Philosophy of Education (Seminary Course).
Professor BUCHNER. *Two hours a week, through the year.*

9. Educational Psychology.
Professor BUCHNER. *One hour a week, through the year.*

10. Introduction to Experimental Psychology.
Dr. DUNLAP. *Lectures and laboratory exercises, Monday, Tuesday, and Wednesday, 2 to 4 p. m.*

11. Experimental Psychology (Research Course).
Professor WATSON and Dr. DUNLAP. *Two hours a week, through the year.*

12. Introduction to Comparative Psychology. Lectures and laboratory exercises.
Professor WATSON. *Two hours a week, through the year.*

13. Comparative Psychology (Research Course).
Professor WATSON. *Two hours a week, through the year.*

14. Advanced General Psychology.
Professor WATSON. *Two hours a week, through the year.*

15. Attention and Feeling from the Experimental Point of View.
Dr. DUNLAP. *Two hours a week, second half-year.*

16. Psychological Journal Club.
Two hours a week, through the year.

UNDERGRADUATE COURSES

1. *a.* Deductive and Inductive Logic.

Creighton's Introductory Logic is, at present, used as a text-book, with references to the works of Jevons, Mill, Bain, Keynes, and other writers.

Professor GRIFFIN. *Three hours weekly, until Christmas.*

b. Psychology.

Text-books liable to change from year to year are made the basis of instruction, but the subject is presented largely through informal lectures and discussions, and by means of passages in various authors assigned for reading. A series of lectures and demonstrations on physiological and experimental psychology is included in the course. One essay on an assigned subject is required from each member of the class.

Professor WATSON. *Four hours weekly, January to April.*

c. Ethics.

The subject is taught by lectures, recitations from a text-book—Mackenzie's Manual of Ethics being used at present,—and references to the works of the most important writers.

Professor GRIFFIN. *Three hours weekly, after April* 1.

2. Outlines of the History of Philosophy.

Rogers's Student's History of Philosophy, Weber's History of Philosophy, and other works of reference, are used as the basis of lectures, discussions, and recitations.

Professor GRIFFIN. *Two hours weekly, through the year; a third hour, for readings from the works of leading philosophers, may be taken.*

All candidates for the degree of Bachelor of Arts are required to follow course 1 during the last year of residence.

DRAWING

1. Freehand Drawing.

The instruction aims to impart such knowledge of the principles of drawing as shall best serve to educate the eye and train the hand. Students looking forward to teaching or to the study of medicine or biology will find this course of value in the illustration of lectures and laboratory work.

Three hours weekly, through the year. Mr. WHITEMAN.

2. Descriptive Geometry and Mechanical Drawing.

This course is offered to students who intend studying architecture or engineering. The work consists of lectures in the theory, and of the practical application in working problems. The study of linear perspective and the perspective of shadows, together with orthographic and isometric projections, is taken up later in the course.

Three hours weekly, through the year. Mr. WHITEMAN.

PUBLIC SPEAKING AND DEBATE

A course in reading and platform speaking is required of undergraduate students in their second year. For the sake of convenience in instruction, the class is divided into several small sections, to each of which is devoted one hour a week. A course in debating, which involves the study of parliamentary law, the collection and arrangement of material, and frequent practice in debate under the direction of an instructor, is assigned to students in their third year. The work of the two years is counted as a half-course. During the fourth year opportunity for a more detailed study of the art of debate and for practice in argumentative composition is open to those who desire it. Prize contests in public speaking and in debate are held annually, and one intercollegiate debate is, as a rule, undertaken each year.

PHYSICAL TRAINING AND ATHLETICS

The authorities of the university, recognizing the importance of systematic physical exercise under suitable advice, have placed the gymnasium in charge of Dr. Ronald T. Abercrombie, and have put the work of this department on a parity with the work done in the regular courses of study.

A careful physical and medical examination is made of each undergraduate, and such exercises are prescribed as

are best suited to his needs. During his first year of residence, he is required to follow the prescribed gymnasium course, which includes also his attendance on a course in hygiene. Regular class instruction is given every afternoon from five to six o'clock. The use of the gymnasium is optional in the case of graduate students; it is offered to all members of the university upon payment of the ordinary locker fee.

The gymnasium—127 feet long by 35 feet wide—is provided with convenient lockers, baths, etc., as well as with the newest forms of apparatus. Adjoining the gymnasium proper is a "cage"—an enclosed and covered space for practice in running and in athletic sports—127 feet long, 66 feet wide, and 30 feet high.

"Hopkins Field," the athletic ground at Homewood, is now in use by the students. In its construction special attention was paid to the problem of drainage, and in this respect the field is well-nigh perfect. It is enclosed by one of the best quarter-mile cinder tracks in the country, with a 220-yard "straightway." A club-house provides dressing rooms, lockers, and shower baths. A stand built of ferro-concrete and accommodating about fifteen hundred spectators has been erected.

In order to prevent ill-advised participation in outdoor sports, and to guard against over-indulgence in training, the athletic teams of the university are under the control of the director of the gymnasium. No student is allowed to become a member of a team unless his physical condition is satisfactory and his "strength test" up to the prescribed standard; and no student is allowed to be a member of, or a candidate for, an athletic team, who is seriously deficient in his studies.

THE DEGREE OF MASTER OF ARTS

The degree of Master of Arts is offered to students who have obtained the baccalaureate degree from a college of good standing, have then followed courses of university study under proper guidance for at least two years, and have satisfied the requirements mentioned below.*

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and, if any of the years of graduate work have been passed by the candidate away from this University, whether they may be considered as spent in accordance with these regulations.

At least one academic year must be passed in this University, and in every case this must be the one immediately preceding the final examinations, unless special permission to the contrary is granted by the Board of University Studies for some extraordinary reason.

The candidate for the degree must make formal application to the Board of University Studies at least one academic year before he expects to present himself for his final examinations. In this application he must state the subject which it is his intention to pursue as his principal study, and in his choice of additional subjects he must be guided by the advice of the professor in charge of his principal work.

In order to obtain the degree the candidate must satisfy two requirements:

1. He must prepare an essay upon a subject approved by the Board of University Studies. This must be completed and submitted to the Board at least four weeks before the time of the final examinations. Two referees will then be designated who shall present to the Board a

*It is understood that the University work for one of these years may be distributed through two or more years, in cases where the student can devote only a part of his time to study.

written report. This essay shall be prepared for presentation to the Board in the manner prescribed for the dissertations submitted for the degree of Doctor of Philosophy.

2. If the report on the essay is satisfactory, the candidate will then be admitted to the final written examinations.

The candidate is, however, permitted to take at the end of any academic year examinations on the subjects followed during that year, or at the beginning of the next year. In case these are passed in a satisfactory manner, he will not be examined further in them. Reports of these examinations shall be made to the Board of University Studies.

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is offered to students who, after obtaining the baccalaureate degree from a college of good standing, have followed courses of university study under proper guidance and without serious distractions for at least three years, and have satisfied the requirements mentioned below.

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and which, if any, years of graduate work not spent in this University are to be considered as spent in accordance with these regulations.

At least one academic year must be passed in this University, and, except in extraordinary cases, the one preceding the final examinations.

PRINCIPAL AND SUBORDINATE SUBJECTS

To become a candidate for the degree the student must select a subject on which he intends to concentrate his efforts and must place himself under the guidance of the professor of this subject. This is called his "principal" study. With the advice of the professor and subject to the approval of the Board of University Studies, the student must choose two other studies, known as "subordinate" subjects, which he must follow. These are called the "first subordinate" and the "second subordinate," and the two should represent one year's work, two-thirds of this being devoted to the former. Additional information concerning the selection of these subjects is given on pages 164-171.

ACCEPTANCE OF THE CANDIDATE

A student who wishes to be considered a candidate for the degree must make written application to the Board of University Studies, upon a form provided for this pur-

pose, at least one academic year before he expects to present himself for his final examinations.* Before this application can be accepted, he must satisfy the University examiners that he is able to translate at sight French and German journals and monographs relating to his principal subject.

REQUIREMENTS FOR THE DEGREE

Certain examinations, as outlined below, must be passed by the candidate, in order to obtain the degree; but the distinctive requirement is the presentation of evidence that the candidate has carried to successful completion an original investigation in his principal subject upon a theme approved by his chief professor. The results of this investigation must be embodied in a dissertation, and submitted to the Board of University Studies.

REGULATIONS CONCERNING THE DISSERTATION

a. The dissertation must be prepared for presentation to the Board of University Studies in accordance with instructions to be obtained from the Registrar, and to every such dissertation must be appended a brief biographical sketch of the author. It must be submitted to the Board at least four weeks before the examinations in the principal subject.

b. The Board shall designate two or more referees, who shall make a written report on the dissertation.

REGULATIONS CONCERNING THE EXAMINATIONS†

a. The candidate shall be subjected to written examinations in his principal subject, and, whenever prac-

*A student who has been admitted as a candidate for the degree of Doctor of Philosophy, will be considered to have satisfied the requirements for admission to courses leading to the degree of Master of Arts.

†If a student who has absolved the examinations required for the degree of Master of Arts in this University, becomes a candidate for the degree of Doctor of Philosophy, he may, at the discretion of the professors, be excused from any further written examinations in the particular courses in which he has already passed.

ticable, in both his subordinate subjects. The results of the examinations shall be reported in writing to the Board of University Studies; and, if these reports and the report on the dissertation are satisfactory, the candidate shall be admitted to an oral examination in his principal and first subordinate subjects before the Board, or a section of it.

b. The written examinations in the subordinate subjects may be taken at any time during the candidate's residence at the University, subject to the judgment of the examiners.

c. In the written examinations no session shall exceed five hours. In the oral examinations before the Board, the time allotted shall be one hour; and three quarters of this shall be devoted to the principal subject.

OTHER REGULATIONS

Before the candidate is admitted to the oral examination he must signify his intention, in the event of his receiving the degree, to print his dissertation in full or in part, and to satisfy the requirements specified below.

If the dissertation is not printed in full, an abstract must be prepared or a portion selected with the approval of the professor, which shall contain when printed not less than twenty-four octavo pages.

One hundred and fifty printed copies of the dissertation must be presented to the University within one year of the time when the degree is conferred. These must have the prescribed title page and must contain the biographical sketch.

The candidate is advised to have these printed copies ready for presentation before the date for the conferring of the degree; otherwise a deposit of $50.00 with the Treasurer of the University must be made. This deposit is returned when the printed copies are presented to the University. If these have not been received within the year specified, the Board of University Studies may declare the deposit forfeited and may apply the amount in printing the dissertation or a part of it.

CONFERRING OF THE DEGREE

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

Choice of Subordinate Subjects

The following suggestions are not to be understood as limiting the attention of the student to the subjects directly connected with the requirements for the degree. In order to secure the full benefit of university training, it is often desirable to broaden the outlook through acquaintance with other subjects—especially those that are conterminous with the chosen field of study. It is also important to learn to appreciate the methods and to come under the influence of other personalities than those that dominate the student's special line of work.

In the choice of subordinate subjects to be associated with a principal one, considerable freedom is permitted by the Board of University Studies. Certain combinations have been recognized officially in previous years, and others are admissible.

In the study of any principal subject the knowledge of a limited number of other subjects is, as a rule, essential. If, on entrance, the student is not sufficiently proficient in these, he must follow courses in this university which will give him the requisite knowledge. These courses need not, however, of necessity be offered as first and second subordinates.

In order to guide the student in his selection of subordinate studies, a number of statements are given below in tabular form, which apply to the various departments of study in this university. These statements furnish—

I. In case the student selects a given subject as his principal one—

a. A list of the other subjects an adequate knowledge of which is considered essential.

b. A list of subjects which, in the past, have been accepted as first or second subordinates in connection with the principal subject.

II. In case the student selects a given subject as his subordinate one—

A list of the courses in that department, which are ordinarily considered sufficient.

Mathematics

I. *a.* While no other subject can be said to be essential to the study of mathematics, it is very desirable that one taking up graduate work should have adequate knowledge of natural sciences, particularly of physics.

b. Physics, Geological Physics, Electricity, Astronomy, History of Philosophy, Psychology.

II. Two or more of the following: Elementary Differential Equations, Theory of Functions, Vector Analysis, Dynamics.

Physics

I. *a.* Chemistry and Mathematics.

b. Chemistry, Physical Chemistry, Mathematics, Astronomy, Applied Electricity, Geological Physics.

II. Physics 1, 2, or 3, with corresponding laboratory courses, Advanced General Physics, Applied Electricity.

Astronomy

II. Celestial Mechanics, Cosmical Physics, with observatory work.

Chemistry

I. *a.* Mathematics (through the Calculus), General Physics, Mineralogy, Physical Chemistry.

b. Mathematics, Physics, Mineralogy, Geology, Physical Chemistry, Biology 1.

II. Chemistry 2 or 3, Physical Chemistry, with corresponding laboratory courses.

Geology

I. *a.* Students who take Geology as their principal subject, are allowed to select courses suitable as a training for general geology and teaching, or those which lead to specialization in Paleontology, Stratigraphic Geology, Petrography, Mineralogy, or Geological Physics. All students are expected to be familiar with the matter given in the elementary or undergraduate courses.

b. (1) Biology, (2) Chemistry, (3) Physics, (4) Petrography, (5) Mineralogy, (6) Paleontology.

Nos. 1-3 may be taken as second subordinates by all students in Geology.

Nos. 4-5 may be taken as a first subordinate by students specializing in Paleontology or Stratigraphic Geology, who are advised to take Biology or Physics as a second subordinate.

No. 6 may be taken as a first subordinate by students specializing in Petrography or Mineralogy, who are advised to take chemistry or physics as a second subordinate.

II. For students in Physics: Geological Physics, Exploratory Surveying, Crystallography—Optical Mineralogy (Geology 1 in part, Advanced Mineralogy in part).

For students in Chemistry: Geology 3 and Economic Geology, Geology 1, Advanced Mineralogy.

For students in Biology: Geology 1 or 2, Paleontology and Paleobotany, Historical Geology.

Zoology

I. *a.* Two or more of the following: Chemistry, Physics, Botany, Geology, Physiology, Psychology.

b. Botany, Physiology, Geology, Anatomy, Pathology.

II. Biology 1, Biology 2 (Part 1), Biology 3 (Part 1), a graduate course.

Botany

I. *a.* Physics, Chemistry, General Biology, Zoology.

b. Zoology, Physical or Organic Chemistry, Geology, Physiology, Pathology.

II. An undergraduate course, with laboratory work; one of the graduate courses.

Physiology

I. *a.* Physics, Chemistry, and Biology.

b. Zoology, Botany, Physics, Chemistry, Physiological Chemistry.

II. Course 4, as on page 180.

Greek

I. *a.* Latin and English (language and literature).

b. Latin, Comparative Grammar, Sanskrit, English, Semitic, Classical Archæology, Philosophy.

II. Prescribed courses of reading in the chief ranges of Classical Greek literature of greater or less extent for first or second subordinate. Two courses of practical exercises for the first subordinate, one course for the second. Attendance on the Seminary for two years for the first subordinate, one year for the second.

Latin

I. *a.* Greek and English (language and literature).

b. Greek, Sanskrit and Comparative Philology, Classical Archæology (Greek and Roman), English, a Romance language, a Semitic language, History.

II. Attendance on the Seminary and lectures during two years for the first subordinate subject, one year for the second, in both cases with prescribed courses of reading in Roman literature.

Those who make Latin their principal subject must take Greek as one of their subordinate subjects. They must also follow the regular courses in Latin Epigraphy and Palæography, as well as in the Comparative Grammar of the Indo-European languages.

Classical Archaeology

I. *a.* Latin and Greek.

b. Latin, Greek, History, Sanskrit and Comparative Philology, Italian or another Romance language.

II. Five hours weekly for two years for the first subordinate; five hours weekly for one year for the second. Prescribed courses of reading.

Those who make Classical Archæology a principal subject are urged to plan for at least a year of residence in Europe, preferably in the American School of Classical Studies at Athens or in the American School of Classical Studies in Rome. For advanced students of Roman Archæology, a reading knowledge of Italian is indispensable.

Sanskrit and Comparative Philology

I. *a.* Classical or Modern Philology, History, Philosophy.

b. Greek, Latin, Germanic Philology, English, Semitic Philology, Philosophy.

II. For the first subordinate subject, a course in Sanskrit, two lectures a week during two years, and attendance on the Vedic Seminary for a half-year, one hour a week; for the second subordinate subject, a course in Sanskrit, two hours a week during a year and a half.

In no case has a student whose principal subject was Sanskrit and Comparative Philology restricted himself to two subordinate subjects. As a rule Avestan, Lithuanian, Gothic, English, and other subjects figured among his courses, in addition to the principal and the two subordinate subjects.

Oriental Seminary

I. *a.* For Hebrew as the principal subject—German, Greek, Latin, Arabic, History of the Ancient East, Bib lical Antiquities, Geography of Western Asia.

b. Assyrian, Arabic, Syriac, or Ethiopic, as the first or second subordinate subject; Egyptology, History of the Ancient East, History of Philosophy, Greek, Sanskrit, Philippine languages, as the second subordinate.

II. For Hebrew as first subordinate—Comparative Hebrew Grammar, Hebrew Prose Composition, Old Testament Seminary.

For Hebrew as second subordinate—the second year's course in Hebrew and private reading of at least fifty chapters of the Hebrew Bible.

English

I. *a.* Gothic, Old High German, Middle High German, Old Norse, Old French, German and French Literature.

b. German, French, Italian, Spanish, Greek, Latin, Sanskrit, History, Philosophy.

II. Courses in the history of the Language and the Literature, and some special work in selected periods or subjects.

German

I. *a.* English, French, Latin.

b. English, French, Latin, Sanskrit, Spanish, Greek, History of Philosophy, History.

II. German as second subordinate—Courses 1, 2, 5, Seminary in Middle High German, one year's membership in the Germanic Society (or a similar amount of work in German Literature).

German as first subordinate—a combination of the two alternatives indicated above; two years' membership in the Germanic Society.

Romance Languages

I. *a.* Latin; a reading knowledge of Spanish, or of Italian, if either of these is chosen as the principal subject; an elementary acquaintance with French, Spanish, or Italian history, according to selection of subject.

b. Sanskrit, Greek, Latin, German, English, History, Philosophy.

II. For the first subordinate, Literature (old and modern), Language (old and modern), Physiological Phonetics, Popular Latin, Private Reading.

For the second subordinate, Literature (modern), Language (modern), Private Reading.

History

I. *a.* Political Economy, Political Science, Latin, French, German.

b. Political Economy, Political Science, Philosophy, English, French.

II. For the second subordinate, lectures, with collateral research, two hours a week for two years, either in European, English, or American history; for first subordinate, four hours a week for two years, with choice in the same subjects.

Political Economy

I. *a.* History and Political Science.

b. History, Political Science, Philosophy, English, Mathematics, Biology.

II. For the first subordinate, two graduate courses for two years, with prescribed reading; for the second subordinate, two graduate courses for one year, with prescribed reading.

Political Science

I. *a.* History, Political Economy, and the Principles of Private Law.

b. History, Political Economy, Philosophy, the Principles of Private Law.

II. Two hours' lecture work, with collateral reading, for two years, for the second subordinate; four hours' work for two years for the first subordinate.

Philosophy

The choice of subordinate subjects is made in consultation with the professors. The different branches of the department—Philosophy, Scientific Psychology, and Education—do not lend themselves to a single scheme of subordinate subjects, since wide variations arise in individual cases.

COLLEGIATE INSTRUCTION

The Johns Hopkins University makes ample provision for collegiate instruction. The courses offered to undergraduates are maintained with no less care and thoroughness than those intended for advanced students; many of the most experienced members of the academic staff cooperate in the conduct of them. No small part of the influence and usefulness of the university is in connection with the collegiate classes, in which, since 1876, nearly twenty-one hundred students have been enrolled.

Certain features of organization and administration have contributed to the effectiveness of the undergraduate work. The scrupulous observance of the distinction between the disciplinary methods appropriate to college teaching and the freer methods of advanced instruction; the "group" arrangement of studies, combining a reasonable liberty of choice with a sufficient exercise of authority; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger pupils of the presence of a large body of graduate scholars conducting investigations in all the great departments of learning,—these conditions have proved favorable to the development of earnestness and scholarly devotion.

ARRANGEMENT OF COURSES

Upon admission to the university, an undergraduate student is assigned to an Adviser (see page 186), and under his guidance is expected to select a scheme of studies composed of courses more or less connected. In order to help the student in this selection, five groups of studies are organized, details concerning which are given below. Having once made a choice, a student may not change his group, except with the consent of his Adviser, and with the approval of the Executive Committee of the Board of Collegiate Studies.

In the formation of the groups it is intended to combine such studies as shall give the student the essential elements of a liberal education, and, at the same time, special training in certain coordinate subjects. By this method the student is not bound to a particular routine of work for which he may feel no especial inclination, nor yet is it possible for him to waste his time and attention by the injudicious selection of wholly unrelated subjects. In each group certain studies are prescribed for all students who are candidates for a degree, and certain other studies are peculiar to the individual group.

By reference to the detailed statement of each group given on pages 176-180, it will be seen that the courses of the first two years are prescribed, but that in each of the last two years there are but one or two prescribed studies. In each of these last two years, therefore, a student may, subject to the provisions already noted, elect four courses. With the approval of his Adviser he may select any courses which he is prepared to enter.

The following is a general statement of the characteristic features of each group:

Group I. Ancient Languages

In Group I the emphasis is laid upon Latin and Greek, each of which is studied for at least two years. In the

last two years the courses are so arranged that the student may continue the study of these languages; or, if he desires, he may devote himself to the study of History, Modern Languages, or Science.

Group II. Modern Languages

In Group II the study of Latin is continued for two years, but the literary training of the student is based chiefly on the study of English, French, and German, with Spanish and Italian if desired. In the latter years, the courses are arranged so as to permit the student to continue the study of Modern Languages, or to give his attention to History or Science.

Group III. History and Political Economy

In Group III the study of Latin is continued as in Groups I and II, but the student devotes the greater part of his time to History and Political Economy. He may continue these studies during the last two years, or he may take advanced courses in Latin, Modern Languages, or Science.

Group IV. Mathematics and Physics

In Group IV the training of the student is based upon the study of the exact sciences rather than upon language and history. Mathematics and Physics are studied for at least two years, and the student may also follow courses in Chemistry, Biology, or Geology. In the last two years the student may continue the former studies, or he may take advanced courses in Modern Languages and History.

Group V. Chemistry, Biology, and Geology

In Group V the natural sciences form the basis of instruction, being supplemented by the prescribed courses

in Modern Languages, History or Political Economy, and Mathematics. In the later years the student may continue the study of Science, or he may devote his attention to Modern Languages or History.

Students who intend to enter the medical department of this university, should choose Group V, and should arrange to pursue the following courses: English, French, and German, each for two years; Mathematics, for two years; Chemistry, for three years; Biology and Physics, each for one year. Other prescribed courses are History or Economics for one year, and Philosophy for one year. These students are advised by the Medical Faculty to arrange their work so that their last year shall include courses in Chemistry and Biology, and, if possible, a course in the Chemistry of the Carbon Compounds.

These courses may be arranged as follows:—*First year:* Chemistry 1, French 1 or German 1, English Composition 1, Mathematics 1, Physical Training. *Second year:* English Literature 1, German 1 or French 1, Mathematics 2, Chemistry 2, Vocal Training, and a half-course to be elected. *Third year*: Physics 1, with laboratory, General History (History 2) or Political Economy, French 2 or German 2, Biology 1, Forensics. *Fourth year:* Philosophy, German 2 or French 2, Chemistry 3, Biology 2.

It should be noted that, in order to enter the medical department, the degree of Bachelor of Arts is required, and, further, that the conditions for this degree, as stated on pages 184, 185, prescribe at least three courses in one definite subject.

GROUP I. ANCIENT LANGUAGES

First Year

PRESCRIBED SUBJECTS

LATIN 1. *Four hours weekly.*
Livy; Terence; Catullus.
Prose Composition.
Private Reading; Cicero; Plautus.

GREEK. 1. *Four hours weekly.*
Xenophon; Plato; Herodotus.
Prose Composition.
Private Reading: Plato, *Crito;* Homer, *Odyssey*, two books.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1.* *Three hours weekly, first half-year.*
Solid Geometry.
Advanced Algebra.

NATURAL HISTORY. *Three hours weekly and laboratory, second half-year.*
Zoology. Botany.

Second Year

PRESCRIBED SUBJECTS

LATIN 2. *Three hours weekly.*
Tacitus; Horace.
Private Reading: Tacitus; Horace.

GREEK 2. *Three hours weekly.*
Lysias; Isocrates; Euripides.
Prose Composition.
Private Reading: Xenophon, *Hellenica*, book 1. Euripides, *Cyclops.*

VOCAL TRAINING. *Weekly.*

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer; Spenser; Shakespeare.
Private Reading.

GENERAL HISTORY (History 2). *Three hours weekly.*

FRENCH *or* GERMAN ELEMENTS. *Four hours weekly.*
Essentials of Grammar.
Translation and Composition.

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three hours weekly; lectures and laboratory work.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

GERMAN *or* FRENCH ELEMENTS. *Four hours weekly.*
(As in second year.)

FORENSICS. *Weekly.*

SUBJECTS ADVISED

LATIN 3. *Three hours weekly.*
Lucretius; Vergil.
Roman Literature.
Private Reading: Cicero; Quintilian.

GREEK 3. *Three hours weekly.*
Plato; Lyric Poets; Sophocles.
Survey of Greek Literature.
Prose Composition.
Private Reading: Elegiac and Iambic Poets; Aeschylus.

ELECTIVE COURSE.† *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April).*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

LATIN 4. *Three hours weekly.*
Petronius; Apuleius; Juvenal.
Private Life of the Romans.
Private Reading: Martial; Pliny; Roman Elegy.

GREEK 4. *Three hours weekly.*
Thucydides; Lucian; Aristophanes.
Greek Life.
Private Reading: Demosthenes; Aristophanes.

TWO ELECTIVE COURSES.† *Six hours weekly.*

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*Those who absolve this course by special examination at entrance, may follow Natural History through the year (see page 120).

†For courses which may be taken as electives, see page 181.

GROUP II. MODERN LANGUAGES

First Year

PRESCRIBED SUBJECTS

LATIN 1. *Four hours weekly.*
Livy; Terence; Catullus.
Prose Composition.
Private Reading: Cicero; Plautus.

FRENCH 1 *or* GERMAN 1.** *Four hours weekly.*
Modern Prose.
Composition.
Private Reading

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1.* *Three hours weekly, first half-year.*
Solid Geometry.
Advanced Algebra.

NATURAL HISTORY. *Three hours weekly and laboratory, second half-year.*
Zoology. Botany.

Second Year

PRESCRIBED SUBJECTS

LATIN 2. *Three hours weekly.*
Tacitus; Horace.
Private Reading: Tacitus. Horace.

FRENCH 2. *Three hours weekly.*
The Nineteenth Century.
Selected Classics.
Literature. Composition.
Private Reading.

Or

GERMAN 2. *Three hours weekly.*
Classical Authors:
Schiller; Goethe.
Composition.
Private Reading.

VOCAL TRAINING. *Weekly.*

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer; Spenser; Shakespeare.
Private Reading.

GENERAL HISTORY (History 2). *Three hours weekly.*

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three hours weekly; lectures and laboratory.*
Elementary Mechanics.
Sound. Heat. Light.
Electricity. Magnetism.

GERMAN 2 *or* FRENCH 2. *Three hours weekly.*
(As in second year.)

FORENSICS. *Weekly.*

SUBJECTS ADVISED (THREE TO BE CHOSEN)

FRENCH 3 AND 5. *Three hours weekly.*
Development of the Drama.
Advanced Composition.

GERMAN 3. *Three hours weekly.*
Goethe's *Faust, Tasso, Iphigenie.*
History of Literature; Lyrics and Ballads.

Or

GERMAN 4. *Three hours weekly.*
Contemporary Literature.

ENGLISH LITERATURE 5. *Three hours weekly.*

SPANISH 1 *or* ITALIAN 1. *Three hours weekly.*
Essentials of Grammar.
Translation; Composition.

LATIN 3. *Three hours weekly.*
Lucretius; Vergil.
Roman Literature.
Private Reading: Cicero; Quintilian.

ELECTIVE COURSE.† *Three hours.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April).*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

TWO MODERN LANGUAGES. *Six hours weekly.*

TWO ELECTIVE COURSES.† *Six hours weekly.*

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

**Those who absolve this course by special examination at entrance, may follow Natural History through the year (see page 120).

†For courses which may be taken as electives, see page 181.

GROUP III. HISTORY AND POLITICAL ECONOMY

First Year

PRESCRIBED SUBJECTS

LATIN 1. *Four hours weekly.*
Livy; Terence; Catullus.
Prose Composition.
Private Reading: Cicero; Plautus.

FRENCH 1 *or* GERMAN 1.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING. *Weekly.*

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1.** *Three hours weekly, first half-year.*
Solid Geometry.
Advanced Algebra.

NATURAL HISTORY. *Three hours weekly and laboratory, second half-year.*
Zoology. Botany.

Second Year

PRESCRIBED SUBJECTS

LATIN 2. *Three hours weekly.*
Tacitus; Horace.
Private Reading: Tacitus; Horace.

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

VOCAL TRAINING. *Weekly.*

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer; Spenser; Shakespeare.
Private Reading.

HISTORY 1. *Three hours weekly.*
Ancient Greece.
Ancient Rome.

POLITICAL ECONOMY 1. *Three hours weekly.*
Economic History.
Elements of Economics.

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three hours weekly; lectures and laboratory.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

FORENSICS. *Weekly.*

SUBJECTS ADVISED

HISTORY 2. *Three hours weekly.*
European History.

HISTORY. 3. *Three hours weekly.*
English History.

POLITICAL ECONOMY 2. *Three hours Weekly.*
Finance.
Economic Institutions.

ELECTIVE COURSE.† *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April).*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

HISTORY 4. *Three hours weekly.*
American History.

POLITICAL ECONOMY 3. *Three hours weekly.*
Statistical Methods.
History of Economic Theory.

TWO ELECTIVE COURSES.† *Six hours weekly.*

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

**Those who absolve this course by special examination at entrance, may follow Natural History through the year (see page 120).

†For courses which may be taken as electives, see page 181.

GROUP IV. MATHEMATICS AND PHYSICS

First Year

PRESCRIBED SUBJECTS

CHEMISTRY 1. *Three lectures, six hours laboratory weekly.*
General Chemistry.

FRENCH 1 *or* GERMAN 1.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly.*
Solid Geometry.
Advanced Algebra.
Plane Analytic Geometry.

Second Year

PRESCRIBED SUBJECTS

MATHEMATICS 2. *Three hours weekly.*
Differential and Integral Calculus.

PHYSICS 1. *Three lectures, six hours laboratory weekly.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

VOCAL TRAINING. *Weekly.*

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer; Spenser; Shakespeare.
Private Reading.

GENERAL HISTORY (History 2). *Three hours weekly.*

Or

POLITICAL ECONOMY 1. *Three hours weekly.*
Economic History.
Elements of Economics.

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

Third Year

PRESCRIBED SUBJECTS

MATHEMATICS 3. *Three hours weekly.*
Differential and Integral Calculus.
Determinants.
Solid Analytic Geometry.
Projective Geometry.

PHYSICS 2. *Three lectures, six hours laboratory weekly.*
Elementary Mechanics.
Elementary Physical Optics.

FORENSICS. *Weekly.*

SUBJECTS ADVISED

GEOLOGY 1. *Three lectures, six hours laboratory weekly.*
Elements of Geology.

Or

BIOLOGY 1. *Three lectures, six hours laboratory weekly.*
General Biology.
Embryology.

Or

CHEMISTRY 2. *Three lectures, six hours laboratory weekly.*
Advanced Inorganic Chemistry.

ELECTIVE COURSE.† *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April).*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

MATHEMATICS 4. *Three hours weekly.*

PHYSICS 3. *Three lectures, six hours laboratory weekly.*

ELECTIVE COURSES† (to make up the requisite number of hours).

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

†For courses which may be taken as electives, see page 181.

GROUP V. CHEMISTRY, BIOLOGY, AND GEOLOGY‡

First Year

PRESCRIBED SUBJECTS

CHEMISTRY 1. *Three lectures, six hours laboratory weekly.*
General Chemistry.

FRENCH 1 *or* GERMAN 1.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly.*
Solid Geometry.
Advanced Algebra.
Plane Analytic Geometry.

Second Year

PRESCRIBED SUBJECTS

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer; Spenser. Shakespeare.

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

VOCAL TRAINING. *Weekly.*

TWO OF THE FOLLOWING

CHEMISTRY 2. *Three lectures, six hours laboratory weekly.*
Advanced Inorganic Chemistry.

BIOLOGY 1. *Three lectures, six hours laboratory weekly.*
General Biology.
Embryology.

GEOLOGY 1. *Three lectures, six hours laboratory weekly.*
Elements of Geology.

MATHEMATICS 2. *Three hours weekly.*
Differential and Integral Calculus.

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three lectures, six hours laboratory weekly.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

GENERAL HISTORY (History 2). *Three hours weekly.*

Or

POLITICAL ECONOMY 1. *Three hours weekly.*
Economic History.
Elements of Economics.

FORENSICS. *Weekly.*

NOTE.—If Political Economy be chosen, Biology 1 (see second year) may be taken in this year.

SUBJECTS ADVISED

CHEMISTRY 2. *Three lectures, six hours laboratory weekly.*
(As in second year.)

Or

CHEMISTRY 3. *Three lectures, six hours laboratory weekly.*
Chemistry of Carbon Compounds.

Or

BIOLOGY 2. *Three lectures, six hours laboratory weekly.*
Comparative Anatomy of Vertebrates.
Elements of Bacteriology.

Or

GEOLOGY 1. *Three lectures, six hours laboratory weekly.*

Or

GEOLOGY 2. *Three lectures, six hours laboratory weekly.*
Crystallography.
Mineralogy.
Elementary Petrography.

ELECTIVE COURSE.† *Three hours Weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April).*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

TWO SCIENCES. *Six lectures, twelve hours laboratory weekly.*

ELECTIVE COURSE.† *Three hours weekly.*

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

†For courses which may be taken as electives, see page 181.

‡See statement as to requirements for the medical department on page 175.

ELECTIVE COURSES

A student may take as an elective any course that he is prepared to enter. In addition to the courses already described under the separate groups, any of which may be chosen, electives are regularly offered in the following subjects:

Latin.
Greek.
Greek and Roman Life.
Classical Archæology.
Sanskrit.
Comparative Philology.
Hebrew.
English and Anglo-Saxon.
French.
German.
Spanish.
Italian.
Mathematics.
Chemistry.
Physical Chemistry.
Physics.
Astronomy.
Zoology.
Botany.
Geology.
History.
Political Economy.
Philosophy.
Psychology.
Drawing.

Before the summer vacation each student is expected to consult his adviser with regard to the electives to be taken in the following academic year.

SYNOPSIS OF GROUPS

Group I	Group II	Group III	Group IV	Group V
		FIRST YEAR		
Latin 1. Greek 1. English Composition 1. Mathematics 1. Natural History. Physical Training.	Latin 1. French 1 or German 1. English Composition 1. Mathematics 1. Natural History. Physical Training.	Latin 1. French 1 or German 1 English Composition 1. Mathematics 1. Natural History. Physical Training.	Chemistry 1. French 1 or German 1. English Composition 1. Mathematics 1. Physical Training.	Chemistry 1. French 1 or German 1. English Composition 1. Mathematics 1. Physical Training.
		SECOND YEAR		
Latin 2. Greek 2. English Literature 1. French Elements or German Elements. General History (History 2). Vocal Training.	Latin 2. German 1 or French 1. English Literature 1. General History (History 2) French 2 or German 2. Vocal Training.	Latin 2. German 1. or French 1. English Literature 1. History 1. Political Economy 1. Vocal Training.	Mathematics 2. Physics 1. German 1 or French 1. English Literature 1. General History (History 2) or Political Economy. Vocal Training.	English Literature 1. German 1 or French 1. Two of these: Biology 1. Geology 1. Chemistry 2. Mathematics 2. Vocal Training.
		THIRD YEAR		
Physics 1. German Elements or French Elements. Forensics. Latin 3. Greek 3. An Elective.	Physics 1. German 2 or French 2. Forensics. Two Languages. An Elective.	Physics 1. Forensics. History 2. History 3. Political Economy 2. An Elective.	Mathematics 3. Physics 2. Forensics. A Science. An Elective.	Physics 1. General History (History 2) or Political Economy. Forensics. A Science. An Elective.
		FOURTH YEAR		
Philosophy 1. Latin 4. Greek 4. Two Electives.	Philosophy 1. Two Modern Languages. Two Electives.	Philosophy 1. History 4. Political Economy 3. Two Electives.	Philosophy 1. Mathematics 4. Physics 3. Electives.	Philosophy 1. Two Sciences. An Elective.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday
9	English Composition 1. English Literature 3. French 2. Geology 1. Greek 2. Italian 1. Mathematics 2. Spanish 1.	Biology 1. Chemistry 1. History 1. French 3. { History 2. { General History. Latin 1.	Chemistry 2. English Literature 2. Geology 3. German 2. Latin 1. Physics 3. Political Economy 1.	Biology 1. Chemistry 1. History 1. French 3. { History 2. { General History. Latin 1.	Biology 1. Chemistry 1. History 1. { History 2. { General History. Latin 1.
10	Latin 2. Mathematics 1. Natural History. Philosophy 1. Physics 1.	English Composition 1. English Literature 3. French 2. Geology 1. Greek 2. Italian 1. Mathematics 2. Spanish 1.	Latin 2. Mathematics 1. Natural History. Philosophy 1. Physics 1.	Chemistry 2. English Literature 2. Geology 3. German 2. Physics 3. Political Economy 1.	Latin 2. Mathematics 1. Natural History. Philosophy 1. Physics 1.
11	Biology 3. Chemistry 3. English Literature 1. English Literature 5. German 3. Greek 3. History 3. Mathematics 4. Physics 2. Political Economy 2.	Biology 3. Chemistry 3. English Literature 1. English Literature 5. German 3. Greek 3. History 3. Mathematics 4. Physics 2. Political Economy 2.	English Composition 1. English Literature 3. French 2. Geology 1. Greek 2. Italian 1. Mathematics 2. Spanish 1.	Biology 3. Chemistry 3. English Literature 1. English Literature 5. German 3. Greek 3. History 3. Mathematics 4. Physics 2. Political Economy 2.	Chemistry 2. English Literature 2. Geology 3. German 2. Physics 3. Political Economy 1.
12	Biology 2. French 1. French Elements. Geology 2. German 1. German Elements. Greek 1. History 4. Latin 3. Mathematics 3. Political Economy 3.	Biology 2. French 1. French Elements. Geology 2. German 1. German Elements. Greek 1. History 4. Latin 3. Mathematics 3. Political Economy 3.	Biology 2. French 1. French Elements. Geology 2. German 1. German Elements. Greek 1. History 4. Latin 3. Mathematics 3. Political Economy 3.	French 1. French Elements. French 5. German 1. German Elements. Greek 1. Philosophy 1. (Psychology). (Jan.-Apr.).	Public Speaking 2.
1	No lectures or recitations of any kind may come at one o'clock.				
2	English Literature 4. Laboratory (2-5).	Drawing (2-5). English Literature 4. Laboratory (2-5).	Drawing (2-5).	Laboratory (2-5).	Laboratory (2-5).
3	English Literature 6. German 4. Italian 2. Latin 4. Spanish 2.	English Literature 6. German 4. Italian 2. Latin 4. Spanish 2.		English Literature 6. German 4. Italian 2. Latin 4. Spanish 2.	
4	French 4. Greek 4.	French 4. Greek 4.		Greek 4.	

REQUISITES FOR THE DEGREE OF BACHELOR OF ARTS

As evidence that the collegiate course has been successfully completed, the degree of Bachelor of Arts is conferred at its close. The degree signifies in the case of every recipient, such instruction in ancient and modern languages, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education.

Twenty courses are required for graduation, and no combination of studies is accepted which does not include three courses in one subject and two courses in another subject.

All candidates for a degree take the following prescribed courses, which are for one year unless otherwise noted:

Rhetoric.

English Literature.

French.

German.

History or (in Groups IV and V) Political Economy.

Physics.

Mathematics—

In Groups I, II, and III, a half-year.

In Groups IV and V, one year.

Philosophy.

Vocal Training.

Forensics.

Physical Exercises.

A Laboratory Course—

In Groups I, II, and III, Natural History (a half-year).

In Groups IV and V, Chemistry and Physics.

The remaining courses necessary to complete the number required are chosen, subject to the approval of the Adviser, in accordance with the schemes outlined under the several groups.

A student may be admitted to advanced standing, in accordance with the regulations given on page 193, but in all cases the candidate must pursue the last year of his undergraduate course in this institution.

In general, four years of residence are necessary for the completion of the courses required for a degree. A capable student may, however, complete this work in three years. Such a student may (1) anticipate certain of the courses by special examination at entrance;* (2) present himself, at the beginning of an academic year, for examination in a single course, provided the Committee on Admission and Advanced Standing, being satisfied that the student can obtain competent instruction, has authorized him, in advance, to prepare this course during the summer vacation;* (3) take, under certain conditions, in any year of residence except the first, a greater number of courses than is called for in the program; (4) offer nineteen courses for graduation instead of twenty, in accordance with the following provision:

In case a student has an average of not less than 9 for the work of his third year, and has not received a mark as low as 7 for any of his courses since admission to the university, he need offer only nineteen courses for graduation.

A student whose average in his studies for each of his last two years has not been less than 9, and who has not received a mark less than 7.5 in any of his courses during his last three years, shall receive his degree WITH HONOR.

Special students who have been in residence at least two years, and who have completed their work in a satisfactory manner, shall receive a certificate stating the facts and signed by the President of the University.

*Forms of application for these privileges are provided and must be obtained from the Registrar.

COMMITTEES AND ADVISERS

Standing Committees. The Board of Collegiate Studies appoints four standing committees:

1. The Executive Committee, which has charge of such matters pertaining to discipline and general administration as may be delegated to it by the Board of Collegiate Studies.

2. The Committee on Admission and Advanced Standing.

3. The Committee on Scholarships and Honors.

4. The Committee on Assignment of Advisers.

The Dean of the College Faculty is *ex officio* a member of each of these.

Advisers. When an undergraduate student is admitted to the university, he is assigned to an Adviser by the standing committee charged with this duty, and he will, under ordinary circumstances, remain under the direction of the same Adviser during his whole course. The approval of the Adviser is necessary before the student can enter upon any course of study; no instructor will receive into a class a student who does not bring with him (in a book provided for that purpose) assurance that his Adviser approves his pursuing the study at that time, and no student is allowed, without the consent of his Adviser, to discontinue any work. Each Adviser endeavors to establish relations of friendliness and confidence with the students assigned to his care; he not only gives counsel in regard to the selection of studies, but promotes the welfare of his students in every practicable way.

REQUIREMENTS FOR ADMISSION

Those who wish to pursue undergraduate courses in this University, should apply to the Registrar for a blank form of "Application for Admission," which must be filled up and *returned to the Registrar one week at least before the time set for the entrance examinations.* These examinations are held at the university in June and September of each year.

To accommodate those who wish to take their examinations elsewhere, the university will accept certificates from the College Entrance Examination Board for subjects passed in accordance with its regulations. (See page 195.)

APPLICANTS FOR ADMISSION

Those who wish to become candidates for the degree of Bachelor of Arts must present evidence of a satisfactory knowledge of the following subjects:

History.	Greek, or French and German.
English.	Physical Geography, or a Science such as Botany, Chemistry, or Physics.
Latin.	
Mathematics.	Free-hand Drawing.

Details of the requirements will be found in the following pages.

To show that he has a satisfactory knowledge of these subjects the applicant must present evidence of two kinds:

1. He must present certified statements of the successful completion of courses in the subjects required. These statements should specify the number of weeks and the number of hours per week that the applicant has given to the study of each subject, and the amount of ground covered in each. The authors read in each language should be specified, and the statement as to science should show that the student did laboratory work.

Blank spaces for these certified statements will be found in the form of "Application for Admission" referred to above, and these should be filled and signed by the teacher under whom the applicant has prepared for college, or by the head of the school.

2. If these statements are satisfactory, the applicant will be admitted to the matriculation examination in Mathematics, History, and the several languages, but will not be required to take an examination in Physical Geography or Science, or in Drawing.

If the statements are unsatisfactory, the Committee on Admission will prescribe such conditions as may be necessary. An applicant who has not had a satisfactory course in Drawing will, if admitted, be required to take the course offered by the university.

Applicants are received without examination from certain schools which have been approved by the Board of Collegiate Studies, provided their "Applications" fully and satisfactorily cover the requirements for admission.

In the case of other schools, and in the case of candidates from approved schools whose certificates are not fully satisfactory, examinations are required, either upon all the subjects necessary for matriculation, or upon selected portions of these subjects, at the discretion of the Committee on Admission.

DIVISION OF THE MATRICULATION EXAMINATIONS

The applicant may pass a part of the examinations one year before his admission to the university and receive credit, under the following conditions:

In his application *he must distinctly declare his intention to divide the examinations.* The subjects passed will not count towards matriculation unless the applicant offers the remaining subjects within the ensuing year. The first part of the divided examination will be confined

to the following subjects, of which the applicant will be expected to pass in the first three at least:

English (*a*).	French or
Algebra (*a*).	German.
Latin (*a*).	History of the United States or
Plane Geometry.	of Greece.
Greek (*a*).	History of England or of Rome.

REQUIREMENTS FOR MATRICULATION

1. MATHEMATICS.—Algebra; Plane Geometry; Plane Trigonometry.

The requirements in Algebra are as follows:

(*a*). To Quadratics, including the four fundamental rules, the use of parentheses, factoring, highest common factor, lowest common multiple, complex fractions, equations of the first degree in one or more unknown quantities, and problems leading to such equations, inequalities, radicals, and the use of fractional and negative exponents.

(*b*). Quadratics and beyond, including quadratic equations in one and two unknown quantities, and problems leading to such equations, the theory of quadratic equations in one unknown quantity, ratio and proportion, the progressions, the elementary treatment of permutations and combinations, the binomial theorem for positive integral exponents, and the use of logarithms.

The subjects required in Plane Geometry and in Trigonometry are those treated in the ordinary text-books.

2. ENGLISH.—The examination consists of two parts:

a. Reading. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—perhaps ten or fifteen—set before him in the examination paper. These topics are selected with reference to certain books, a list of which is given below. This part of the examination is designed, primarily, to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

The books prescribed for this part of the examinations are:

In 1910, 1911, and 1912: Group I (*two* to be selected).

Shakespeare's *As You Like It, Henry V, Julius Caesar, The Merchant of Venice, Twelfth Night.*

Group II (*one* to be selected).

Bacon's *Essays;* Bunyan's *The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers* in *The Spectator;* Franklin's *Autobiography.*

Group III (*one* to be selected).

Chaucer's *Prologue;* Spenser's *Faerie Queene* (Book I); Pope's *The Rape of the Lock;* Goldsmith's *The Deserted Village;* Pal-

grave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (*two* to be selected).

Goldsmith's *The Vicar of Wakefield;* Scott's *Ivanhoe;* Scott's *Quentin Durward;* Hawthorne's *The House of the Seven Gables;* Thackeray's *Henry Esmond;* Mrs. Gaskell's *Cranford;* Dickens's *A Tale of Two Cities;* George Eliot's *Silas Marner;* Blackmore's *Lorna Doone.*

Group V (*one* to be selected).

Irving's *Sketch Book;* Lamb's *Essays of Elia;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *The Hero as Poet, The Hero as Man of Letters,* and *The Hero as King;* Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies.*

Group VI (*two* to be selected).

Coleridge's *The Ancient Mariner;* Scott's *The Lady of the Lake;* Byron's *Mazeppa* and *The Prisoner of Chillon;* Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome;* Poe's *Poems;* Lowell's *The Vision of Sir Launfal;* Arnold's *Sohrab and Rustum;* Longfellow's *The Courtship of Miles Standish;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, Pheidippides.*

In 1912, Tennyson's *The Princess* will be substituted for the three *Idylls of the King.*

In 1913 the examination will be based upon the recommendations of the National Conference on Uniform Entrance Requirements in English, which met February 22, 1909. A statement of these recommendations can be obtained by application to the Registrar.

b. Study and Practice. This part of the examination presupposes the careful study of each of the works named below. The examination will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination are:

In 1910, 1911, and 1912: Shakespeare's *Macbeth;* Milton's *L'Allegro, Il Penseroso,* and *Comus;* Burke's *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson,* or Carlyle's *Essay on Burns.*

In 1913 the examination will be based upon the recommendations of the National Conference on Uniform Entrance Requirements in English, which met February 22, 1909. A statement of these recommendations can be obtained by application to the Registrar.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be memorized. The essentials of English grammar should not be neglected in preparatory study.

No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

Although candidates will be permitted to take the entire examination at the time of entrance, it is strongly recommended that Part *a* be taken as a preliminary examination and Part *b* as a final examination. Candidates will thus have an opportunity to make up deficiencies which may be discovered at the preliminary examination, and to enter the University without a condition in English.

3. HISTORY.—The outlines of the History of England and the United States, or of the History of Greece and Rome, and the outlines of the geography of these countries.

4. LATIN.—A systematic course of instruction extending over four school years at least is presupposed. The applicants should have read the following texts:*

Cæsar, at least four books.
Cicero, at least six orations.
Vergil, at least six books.
Ovid, at least one thousand lines.

The examination includes three elements:

(*a*) Latin Grammar (both forms and syntax), based on Cæsar, *Gallic War*, Book I, and Cicero, *Orations against Catiline*, I, II, and III.

(*b*) Translation into English of Latin prose and verse, together with questions suggested by the text, including questions on prosody. A part of the translation will be at sight, and, in all translations, simple, idiomatic English will be required.

(*c*) Translation into Latin of a passage of easy, connected English prose.

In case the examination is divided, as provided for on page 188, (*a*) should be offered at the preliminary examination.

The following requirements in Latin will go into effect in 1911:

I. Amount and Range of the Reading Required—

1. The Latin reading required of candidates for admission to college, without regard to the prescription of particular authors and works, shall be not less *in amount* than Cæsar, Gallic War, LIV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I-VI.

2. The amount of reading specified above shall be selected by the schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. Subjects and Scope of the Examinations—

1. *Translation at Sight.* Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

*These requirements are for June and September, 1910.

2. *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

3. *Grammar and Composition.* The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

5. GREEK.—A systematic course of instruction extending over three school years at least is presupposed. The applicant should have read the following texts:

Xenophon, *Anabasis*, at least four books.

Homer, *Iliad*, at least four books, or *Odyssey*, at least six books.

The examination includes three elements:

(*a*) Greek Grammar (both forms and syntax), based largely on Xenophon's *Anabasis*. Books I and II.

(*b*) Translation into English of Attic prose and of Homer, together with questions suggested by the text, including questions on Homeric life and the prosody of the Homeric poems. A part of the translation will be at sight, and in all translations simple, idiomatic English will be required.

(*c*) Translation into Greek (with accents) of a passage of easy, connected English prose.

In case the examination is divided, as provided for on page 188, (*a*) should be offered at the preliminary examination.

Applicants not offering Greek must meet the following requirements in French and German:

6. FRENCH.—The requirements in French presuppose a systematic course extending over at least two school years, at the end of which time the student should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions on the rudiments of French grammar. The examination, *which may not be divided*, comprises:

(*a*) Questions on the elements of French grammar, including the inflection of adjectives, participles, and pronouns; the conjugation of verbs; the use of personal pronouns, common adverbs, prepositions, and conjugations; the order of words in the sentence; and the elementary rules of syntax.

(*b*) The translation into French of short sentences illustrative of the rules of grammar, and of a short paragraph based on a French text given. In place of the translation of this paragraph, the candidate may substitute an original exercise in French on a subject set by the examiner.

(*c*) The translation, at sight, of easy French prose.

(*d*) An oral exercise in pronunciation.

The candidate should have read from 400 to 500 pages of French prose taken from the texts edited for elementary use, as listed by the leading publishers; especially those of the works of About, Bruno, Dumas, Erckmann-Chatrian, Halévy, Laboulaye, Labiche and Martin, Malot, Sand, and Verne. Grammars recommended are Frazer and Squair's, Part I, Longman's, Chardenal's Complete French Course, and Perry and Reum's French Book.

7. GERMAN.—The requirements in German presuppose at least two years of school work under approved methods, with four recitations weekly, and the reading of a minimum of 300 pages of easy dialogue and narrative prose.

Candidates are expected to give particular attention to pronunciation, to the acquisition of an elementary German vocabulary, and to an accurate knowledge of the rudiments of German grammar, in quantity corresponding to Vos's *Essentials of German*.

The examination, *which may not be divided*, comprises:

(*a*) Translation at sight of passages of simple dialogue and narrative prose. Help will be given on unusual words and constructions.

(*b*) Questions on grammatical forms and syntax. These will, as a rule, be based upon the passages assigned for translation.

(*c*) Translation into German of easy English from the language of every-day life. In addition, a brief rendering of English into German, based on the passages described under (*a*), may be required.

Selections may be made from such texts as the following:

Baumbach, *Sommermärchen, Der Schwiegersohn.* Benedix, *Eigensinn, Der Prozess.* Gerstäcker, *Germelshausen.* Hauff, *Das kalte Herz.* Heyse, *L'Arrabbiata.* Riehl, *Burg Neideck.* Saar, *Die Steinklopfer.* Seidel, *Leberecht Hühnchen.* Stifter, *Das Haidedorf.* Storm, *Immensee, In St. Jürgen.* Sudermann, *Teja.* Wildenbruch, *Das edle Blut, Der Letzte.*

APPLICANTS FOR ADVANCED STANDING

A student may be admitted to advanced standing at entrance by passing the necessary examinations. Forms of application for this privilege and all necessary information may be obtained from the Registrar. Under ordinary circumstances a student *is not allowed to an-*

ticipate at entrance more than two courses, which may be first-year courses in languages (except English) and in mathematics.

A student entering from another college of good standing may be credited with work done there, provided he submits certificates satisfactory to the Committee on Admission and Advanced Standing.

SPECIAL STUDENTS

The university is ready to receive as special students those who are qualified by age, character, attainments, and habits of study, to attend its classes and lectures with profit to themselves and the institution. Such persons may be admitted, without matriculation, to a limited number of undergraduate courses; but the privilege once accorded will be forfeited if the student is found unworthy of it.

The requirements for admission as a special student are that the applicant shall pass such examinations, and shall present such other evidence of fitness to pursue the desired courses as may in each case be required by the Committee on Admission. Unless excused for some definite reason, the applicant will be required to satisfy the matriculation requirements in English, in French or German, and in either Latin or Mathematics. In the past, many excellent students have been thus enrolled, among whom not a few have subsequently changed their plans, passed the matriculation examinations, and at length received the degree of Bachelor of Arts.

Admission on these terms will not be granted unless the applicant be of some maturity, of serious intent, and of proved ability, and can satisfy the Committee on Admission that there are valid grounds for admitting him without full matriculation. A student cannot be admitted as a special student merely on the ground that he is unable to meet the full matriculation requirements.

College Entrance Examination Board

The College Entrance Examination Board holds examinations at numerous places in the country about the third week of June in each year, information in regard to which may be obtained by addressing The College Entrance Examination Board, Post Office Sub-Station 84, New York.

These examinations, if passed with a mark of not less than 60%, will be accepted for admission, in accordance with the following scheme of equivalents:

THE JOHNS HOPKINS UNIVERSITY	COLLEGE ENTRANCE EXAMINATION BOARD
Algebra *a*.	Mathematics *a*, *i*.
Algebra *b*.	Mathematics *a*, *ii*.
Plane Geometry.	Mathematics *c*.
Plane Trigonometry.	Mathematics *f*.
Latin *a*.	Latin *a*, *b*, *m*.
Latin *b* and *c*.	Latin *c*, *d*. *e*, *p*, and *q*.
Greek *a*.	Greek *a*, *b*.
Greek *b* and *c*.	Greek, *c*, *f*, *g* and *h*.
French.	Elementary Requirement.
German.	Elementary Requirement.
English *a*.	English *a*.
English *b*.	English *b*.
History of Greece and Rome.	History *a*.
History of England and the United States.	History *c*, *d*.

Undergraduate Entrance Examinations, 1910*

Tuesday, June 7 and September 27

9–11 a. m.—Algebra.
11.30 a. m.–1 p. m.—Trigonometry.
3–4 p. m.—English *a*.
4–5 p. m.—English *b*.

Wednesday, June 8 and September 28

9 a. m.–12 m.—Plane Geometry.
3–5 p. m.—History.

Thursday, June 9 and September 29

9–11 a. m.—Latin.
3–5 p. m.—Latin.

Friday, June 10 and September 30

9–11 a. m.—Greek and German.
12 m.—Science.
3–5 p. m.—Greek and French.

*In 1911 the examinations will begin one day earlier at each season.

II. FACULTY OF MEDICINE

Terms of Admission

The courses in medicine given in this university are planned for the professional education of those students who have been especially fitted to receive instruction by a course of preliminary training in the liberal arts, and especially in those branches of science, like physics, chemistry, and biology, which underlie the medical sciences. Men and women are admitted upon the same terms.

The following classes of students are received as candidates for the degree of Doctor of Medicine:

1. Those who have completed the chemical-biological course in this university (Group V) leading to the degree of Bachelor of Arts.

2. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have acquaintance with Latin and a reading knowledge of French and German; (*b*) That they have such knowledge of physics, chemistry, and biology as may be obtained by a year's course in these subjects when accompanied by laboratory work.

In biology the candidate, in addition to lectures and recitations, should have followed for at least a year a laboratory course of six or more hours a week in the structure, life-history, and vital activities of selected types of animal and vegetable life. Courses in botany or zoology will be accepted, provided the laboratory work has been adequate. It is desirable also that candidates should have taken a laboratory course in embryology.

The candidate should have followed a course in general chemistry for at least a year. This course should include laboratory work, about five hours a week through the year, and lectures and class-room work covering the outlines of inorganic chemistry and the elements of organic chemistry. A good knowledge of the subject as presented in Remsen's "Introduction to the Study of Chemistry" may be regarded as the minimum requirement. A fuller knowledge of chemistry is desirable.

In physics, the candidate should have followed a collegiate course for at least one year. This should include four hours a week of class-room work and at least one afternoon a week of

quantitative work in the laboratory. Special attention should be given to theoretical mechanics and to the mechanical and electrical experiments.

In Latin the candidate should have studied Latin grammar and should possess at least such knowledge of the language as may be acquired by reading four books of Cæsar or their equivalent.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school, and the knowledge of French, German, Latin, physics, chemistry, and biology above indicated.

Applicants for admission will receive blanks to be filled out relating to their previous courses of study. They are required to furnish certificates from officers of the colleges or scientific schools in which they have studied, as to the courses pursued in physics, chemistry, and biology. If the certificates are satisfactory, no examination in these subjects will be required from those who possess a degree in arts or in science from an approved college or scientific school.

Hearers and special workers, not candidates for a degree, will be received at the discretion of the Faculty.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission as regards preliminary training have been fulfilled, (2) that courses equivalent in kind and amount to those given here preceding that year of the course for admission to which application is made, have been satisfactorily completed, and (3) must pass examinations, at the beginning of the session in October, in all the subjects that have been already pursued by the class to which admission is sought. Certificates of standing elsewhere cannot be accepted in place of these examinations.

General Plan of Instruction

The course of instruction is planned for those who have received a liberal education and the training in physics, chemistry, and general biology which has been specified. The required period of study for the degree of Doctor of Medicine is four years. The academic year begins on the first of October and ends about the middle of June. There are short recesses at Christmas and Easter.

The first two years of the course are devoted mainly to the fundamental medical sciences, a large part of the time being spent in practical work in the laboratories. In the last two years, medicine, surgery, obstetrics, and the various specialties are studied in the clinical laboratories, the dispensary, and the wards of the hospital.

Throughout the four years' course an opportunity is given to elect special courses. In each year a certain number of courses are required, but, in addition, the student must select from a group of electives enough work to make up from twenty-five to thirty hours of work a week.

The principal required studies of the first year are anatomy (including normal histology), physiology, and physiological chemistry. The study of anatomy and physiology is continued in the second year. During the second year general pathology, pathological anatomy, and pharmacology are studied. A practical course in bacteriology, with the chief emphasis upon its hygienic and pathological bearings, is given during three months of this year.

Upon the basis of thorough training in the medical sciences, pursued during the first two years of the course, the student should be well fitted to undertake the study of practical medicine and surgery.

During the third year the general principles of medicine, surgery, obstetrics, and gynecology are studied, and clinical instruction is given in these subjects and in

nervous diseases. The study of certain special branches of medicine is also begun. Leading features of the work of this year are the courses in the clinical laboratories and practical work in the dispensary.

During the fourth year the practical study of medicine and surgery is continued, and instruction is given in the various special branches of medicine and surgery, viz.: dermatology, genito-urinary diseases, orthopedic surgery, laryngology and rhinology, ophthalmology and otology, pediatrics, and psychiatry. In this year the students serve as clinical clerks and surgical dressers in the wards of the hospital and are in daily attendance at special classes in the dispensary. They also have an opportunity to take various elective courses which are described specifically in the catalogue of the medical department. For the ward and dispensary work the class is divided into small groups.

Instruction in hygiene, medical zoology, forensic medicine, and medical history is provided during the course.

Work in the dissecting room, in the laboratory, and at the bedside, demonstrations, clinics, lectures, and recitations are the main features of the methods of instruction. Simple didactic lectures occupy a subsidiary position, as compared with instruction by recitations and demonstrations and especially by practical work in the various laboratories, in the hospital wards, and in the dispensary. In consequence of the high standard of admission, the classes are not likely to be excessively large, and abundant opportunity is therefore afforded for practical work for each student and for personal contact between teacher and student.

Courses for Graduates in Medicine

Courses of instruction for graduates in medicine are given throughout the year. These courses are in Anatomy, Histology and Organology, Pathology, Bacteriol-

ogy, Pharmacology and Toxicology, Physiology, Neurology, Neurological Technique, Embryology, Physiological Chemistry, Clinical Microscopy, Medicine, Pediatrics, Obstetrics, Gynecological Pathology, Surgical Pathology, Operative Surgery, Orthopedic Surgery, Genito-Urinary Surgery, X-Ray Diagnosis and Therapeutics, Cystoscopy, and Ophthalmology and Otology. The instruction is intended to meet the requirements of practitioners of medicine, and is almost wholly of a practical character. It includes laboratory courses, demonstrations, bedside teaching, and clinics in the wards, dispensary, amphitheatre, and operating rooms of the hospital.

Detailed statements as to the courses of instruction and other information are given in the annual Catalogue and Announcement, which will be sent upon application to the Registrar of the school.

ENDOWED PROFESSORSHIPS AND LECTURESHIPS

The Baxley Professorship

By the will of Dr. Henry Willis Baxley, of Baltimore, who died March 13, 1876, a sum of money, amounting to $23,836.52, was received by the Trustees of the University to endow any medical professorship that they might think proper. This fund was kept intact and allowed to accumulate until it had reached the sum of $50,000. In 1901, the Trustees directed that the fund be set apart as a partial endowment of the Professorship of Pathology in the University, to be known as the Baxley Professorship of Pathology. The first incumbent is Dr. William H. Welch.

The Caroline Donovan Professorship

Mrs. Caroline Donovan, of Baltimore, gave to the University in November, 1889, shortly before her death, the sum of one hundred thousand dollars to establish a professorship of English literature. The first incumbent is Dr. James W. Bright, who was designated Caroline Donovan Professor of English Literature in 1905. During the intervening years courses of lectures were given by resident and non-resident scholars devoted to study in this field.

The Percy Turnbull Memorial Lectureship

On May 6, 1889, Mr. and Mrs. Lawrence Turnbull, of Baltimore, founded a lectureship in memory of their son, Percy Graeme Turnbull, their purpose being to enable the University to offer an annual course of lectures on poetry by a lecturer to be chosen by the President of the University from among "properly qualified authors, writers, or professors of America or Europe." At present the sum

of $1,000 is provided annually. Sixteen courses have been given on this foundation, the first in 1891. The list of lecturers includes Edmund C. Stedman, Richard C. Jebb, Charles Eliot Norton, George Adam Smith, Ferdinand Brunetière, and other foreign and American scholars of distinction.

The Herter Lectureship

Dr. and Mrs. Christian A. Herter, of New York, gave to the University in November, 1902, the sum of $25,000 "for the formation of a memorial lectureship designed to promote a more intimate knowledge of the researches of foreign investigators in the realm of medical science." The income of the lectureship is $1,000. According to the terms of the gift, some eminent worker in physiology or pathology is to be asked each year to lecture at the University upon a subject with which he has been identified. The selection of the lecturer is to be left to a committee representing the departments of pathology, physiological chemistry and clinical medicine, and if "in the judgment of the committee it should ultimately appear desirable to open the proposed lectureship to leaders in medical research in this country there should be no bar to so doing." Four courses have been given on this foundation, beginning in 1904. The lecturers were Paul Ehrlich, of Frankfort-on-the-Main, Hans H. Meyer, of Vienna, Almroth E. Wright, of London, and Edward A. Schäfer, of Edinburgh.

The James Schouler Lectureship

In March, 1908, Dr. James Schouler, of Boston, who had lectured in this University annually since 1891, announced his purpose to found a permanent lectureship in the University, to be known as "The James Schouler Lectureship of History and Political Science." It is ex-

pected that the endowment of the lectureship will eventually be $25,000. The donor expressed the wish that "such lectures be given annually if possible, * * * and that persons of promise or prominence be selected to lecture, who are capable of interesting as well as instructing an audience." The lectureship was inaugurated in April, 1909, by Abbott Lawrence Lowell, President (elect) of Harvard University; the second lecturer (in 1910) was George Walter Prothero, of London.

The Albert Shaw Lectureship

Dr. Albert Shaw, of New York, a graduate of this University, gives annually the sum of $250 as the honorarium of a lecturer on Diplomatic History. The lectures are given before the advanced students of history and political science, and ten courses have been delivered, beginning in 1898. The lecturers, with two exceptions, have been alumni of the University.

In January, 1904, the Trustees decreed that certain chairs should bear the names of leading contributors to the Endowment Fund of 1902, as memorials of their liberality. In pursuance of this action four professorships have been thus designated: The B. N. Baker Professorship of Chemistry; the Francis White Professorship of Greek; the W. W. Spence Professorship of Semitic Languages; the Henry Walters Professorship of Zoology.

THE JOHNSTON SCHOLARSHIPS

These scholarships, of which there are three, known as the Henry E. Johnston Scholarship, the James Buchanan Johnston Scholarship, and the Henry E. Johnston, Jr. Scholarship, were founded by Mrs. Harriet Lane Johnston, of Washington, formerly of Baltimore, in memory of her husband and her two sons. They are awarded annually by the Trustees on the recommendation of the Academic Council. The stipend of each scholarship is the income of thirty thousand dollars. They are offered primarily to young men who have given evidence of the power of independent research. The holders of the scholarships will be expected to devote themselves to study and research in their chosen subjects, though they may be required to do some teaching. Each one will be designated as the "Holder of the ..... Johnston Scholarship."

Regulations

Candidates for the Johnston Scholarships must make application, in writing, to the President of the University before the first of April. The applications must be accompanied by such evidence of the candidates' fitness as they may be able to present. The President will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees at their meeting in May.

Holders of the scholarships may not engage in teaching elsewhere.

The scholars will be appointed for one year; but, if their work should prove satisfactory, they will generally be reappointed.

FELLOWSHIPS

Fellowships by Courtesy

The Academic Council may, at their descretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Gentlemen who are, or who have been, teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this university and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by a special vote.

University Fellowships

Twenty fellowships, each yielding five hundred dollars but not exempting the holder from the charges for tuition, are annually awarded.

The system of fellowships was instituted for the purpose of affording to young men of talent from any place an opportunity of continuing their studies in the Johns Hopkins University, while looking forward to positions as professors, teachers, and investigators, or to other literary and scientific vocations. The fellowships are given to young men who wish to follow systematically through the year the instructions of the teachers here engaged, and those who are appointed are expected to proceed to the degree of Doctor of Philosophy. The appointments are made not merely in recognition of good work already

done, but as aids and incentives to good work in the future; in other words, the fellowships are not so much honors and prizes bestowed for past achievements, as helps to further progress and stepping-stones to honorable intellectual careers. They are not offered to those who are definitely looking forward to the practice of any one of the three learned professions (though such persons are not formally excluded from the competition), but are bestowed almost exclusively on young men desirous of becoming teachers of science and literature, or of devoting their lives to special branches of learning which lie outside of the ordinary studies of the lawyer, the physician, and the minister.

Each candidate is expected to submit his college diploma or other certificate of proficiency from the institution where he has been taught, with recommendations from those who are qualified to speak of his character and attainments. But this is only introductory. He must also submit orally or in writing, such evidence of his past success in study and of his plans for the future, together with such examples of his literary or scientific work, as will enable the professors to judge of his fitness for the post. The examination is, indeed, in a certain sense competitive, but not with uniform tests, nor by formal questions submitted to the candidates. First, the head of a given department considers, with such counsel as he may command, the applicant's record. The professors then collectively deliberate on the nominations made by individual members of their body. The list upon which they agree, with the reasons for it, is finally submitted by the President of the University to the Executive Committee, and by them to the Trustees for final registration and appointment. By all these precautions the highest results which were anticipated have been secured. A company of most promising students has been brought together, and their ability as teachers and scholars has

been recognized by calls they have received to permanent and desirable posts in various parts of the country.

The number of applications for fellowships has hitherto been very large, and it may have happened that some candidates have failed of appointment who were really superior to those selected. But if so, this has resulted from the fact that a considerable number of applicants have each year forwarded to the university merely testimonials from their instructors, without examples of their own work, and, in consequence, the professors, from want of adequate knowledge, have possibly passed over candidates who may have been in the highest degree meritorious.

The applicants are notified of the result by means of a printed list of the successful candidates.

The absence of candidates from Baltimore has been no bar to their appointment, in cases where adequate evidence of their claims has been presented; but it is obvious, from the nature of the case, that graduate students residing in Baltimore must have better opportunities than others of making their powers known to the appointing board, and during the last few years the number of persons appointed, who had not previously been resident here, is very small.

REGULATIONS

1. The application must be made prior to May 1, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees, at their meeting in June. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character, such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars. The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, to act when called upon as an examiner or as moderator in the examination room, to give all his influence for the promotion of scholarship and good order, and in general to co-operate in upholding the efficiency of the university, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close of the year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the university, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. Usually not more than two fellows will be appointed in any department of study.

9. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

Adam T. Bruce Fellowship

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph. D., late fellow and instructor in this university, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

REGULATIONS

Candidates for the Bruce Fellowship must make application, in writing, to the President of the Johns Hopkins University before the first of April. They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors, who may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in biology at a place approved of by the President of the university, and he shall, during the month of February in the year of his tenture of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during the tenure of the fellowship.

The holder shall not be more than thirty years of age at the date of his election.

The Bruce Fellow may be re-elected, but not oftener than twice, and he shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant, if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

WILLIAM S. RAYNER FELLOWSHIP

The Rayner Fellowship was founded by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this university the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to ten thousand dollars, and the income is available for a fellowship, which is bestowed annually by the Academic Council upon an advanced student in the department of Semitic Languages.

SCHOLARSHIPS

University Scholarships

For the encouragement of scholarships among those who have taken the baccalaureate degree and wish to continue their studies here, a number of University Scholarships are annually bestowed, as stated below:

1. Fifteen scholarships are open about the first of January to graduates of this or of other institutions, who have been studying here during the previous part of the session. Those who wish to be candidates must make formal application to the President, stating where they have been previously trained and what studies they have pursued in this university. He will appoint a committee of five to consider the applications, and, with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

2. These scholarships entitle the holders to free tuition and are tenable for one year. They do not carry exemption from laboratory fees.

3. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this university.

4. The Board will reserve appointments, if worthy candidates do not offer.

Hopkins Scholarships

In the will of the founder of this university, his Trustees are requested to "establish, from time to time, such number of free scholarships in said university as may be

judicious, and to distribute the said scholarships among such candidates from the States of Maryland, Virginia, and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

Forty-six such scholarships, entitling the holders to free tuition, are now offered to students from the three States named.

Students can be recognized as candidates only when actual residents of the State from which they desire to be appointed, during at least the year next preceding their enrolment in the university. If the appointing board is not sure as to the legal residence of any candidate, the point in question shall be determined by the Executive Committee of the Board of Trustees.

These scholarships are all bestowed for merit, and are tenable for the year subsequent to the appointment, the holders being re-eligible.

Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited, because of frequent or prolonged absence, defective scholarship, or unworthy conduct.

Scholarships made vacant by resignation, by forfeiture, or by the non-appearance of worthy candidates at the regular times of selection, may be bestowed by the appointing board, at their discretion, upon other candidates who are found worthy, provided that the principles of this foundation are not departed from.

Holders of scholarships are not exempt from laboratory fees.

Hopkins Scholars from Maryland

These scholars are appointed by the Board of Collegiate Studies, in accordance with the following regulations:

1. Four scholarships are open, at the beginning of the session, to those who have just completed their matriculation examination, and who stand best in a subsequent special examination in Mathematics, Latin, and Greek (or French and German), as required for matriculation.

2. Four are awarded in June to matriculated students whose records in the studies of the first year are most creditable. By "studies of the first year" is meant either the studies laid down for the first year in one of the regular groups, or such other studies, equivalent in amount, as may be approved of by the Committee on Scholarships and Honors.

3. Four are awarded for excellence in the studies of the second year, upon the same terms as in the case of the first year, provided that the candidate shall have absolved the "studies of the first year" as above defined.

4. Four are awarded for excellence in the studies of the third year upon the same terms as in the case of the second year, provided that the candidate shall have absolved the studies of the first and second years.

Hopkins Scholars from North Carolina and Virginia

Fifteen Hopkins Scholarships are awarded by the Academic Council to students from Virginia, and fifteen to students from North Carolina, who have already received a creditable baccalaureate degree or its equivalent. In case the entire number of scholarships is not required for graduate students, those that remain may be awarded to undergraduates, in the order of their merit. Applications, in writing, must be filed at the President's office prior to June 1.

WASHINGTON SCHOLARSHIPS

The Trustees offer to residents of the District of Columbia two scholarships, yielding free tuition. These, like the Hopkins Scholarships, are awarded to undergrad-

uate students for merit, do not carry exemption from laboratory fees, and are tenable for one year, the holders being eligible for re-appointment.

Woodyear Scholarships

Mrs. William E. Woodyear, of Baltimore, gave to the Trustees in 1893, as a memorial of her husband, the sum of ten thousand dollars, in order to provide for the annual bestowal of five scholarships, of one hundred dollars each, under such conditions as the Trustees may from time to time prescribe. At present they are awarded to young men who are known to the President of the University to be in need of pecuniary assistance, and who, at the same time, have given evidence of character and ability.

Maryland Scholarships

Twenty "Maryland Scholarships" are annually offered to residents of this State. They entitle the holders to free tuition, but do not carry exemption from laboratory fees. The scholarships are for the benefit of all parts of the State, and, accordingly, not more than one-half the number are awarded to residents of the city of Baltimore, and not more than one-half to those who are already members of the university. The appointing board consists of the President of the Board of Trustees, the President of the University, and the Dean of the College Faculty. The usual entrance examinations must be passed by the candidate, who must make application in accordance with a prescribed form; this must be accompanied by testimonials certifying to the applicant's character and pecuniary need. Students already in residence must apply before June 1; newly-entering students about October 1.

PRIZES

The John Marshall Prize

This prize was established in 1891 by a lady living in New England. It consists of a bronze replica of a likeness of Chief Justice Marshall, and is awarded annually by the Academic Council to that graduate of the Johns Hopkins University who has made within the year the most valuable contribution to historical or political science.

The Henrico Medallion

This prize is the gift (made in 1902) of the Colonial Dames of America, Chapter I, and consists of a copper medallion bas-relief commemorating the foundation of a university at Henrico, in Virginia, in the year 1619. It is bestowed in alternate years upon a graduate or student of the Johns Hopkins University, not more than ten years after his receiving the degree of Bachelor of Arts, as a recognition of special excellence in early American History.

The Tocqueville Medal

The Tocqueville medal is annually given to the Johns Hopkins University by the Baron Pierre de Coubertin, of Paris, and is offered by the university to that student who shall have written the best essay on some subject illustrating any phase of French History, political or social, from 1815 to 1890, or a review of some imporant historical work published in France since 1890. The medal is given in honor of the illustrious Frenchman, Alexis de Tocqueville (1805-1859), author of the well-known historical and political studies, "Ancien Régime" and Démocratie en Amérique." The conditions of the award may be learned at the office of the University.

The Sylvester Prize

The Sylvester Prize is the gift of several Baltimore gentlemen, and is offered to advanced students of mathematics as a reward for original research. It consists of a medallion likeness of Professor J. J. Sylvester, the first professor of mathematics in this university.

The Severn Teackle Wallis Memorial Prize

The Severn Teackle Wallis Memorial Prize was established in 1905 by the Wallis Memorial Association of Baltimore. It consists of about fifty dollars in money, and is offered to an undergraduate or a graduate student of the University for an essay on some subject connected with Spanish Literature or History, or for some original work done in either of said subjects.

The Adams Prizes and Medal

The Trustees set aside annually the sum of fifty dollars for the purchase of books to be awarded as prizes to the undergraduates who are successful in the annual public debate between members of the two higher classes. These prizes, which were originally offered by the late Professor Herbert B. Adams, are known as the Adams Prizes.

A gold medal known as the Adams Medal is also awarded annually to the best speaker in the public contest participated in by members of the second-year undergraduate class.

TUITION FEES AND EXPENSES

A. In the Philosophical Department

Tuition Fees

The charge for tuition is one hundred and fifty dollars per annum, payable at the Treasurer's office in semi-annual instalments, October 1 and February 1. There is no extra charge for instruction in any department of study, or for the use of the library and reading-room.

Gymnasium Fee

A gymnasium fee of five dollars per annum is charged to every undergraduate during his residence in the university, and the money thus acquired is devoted to defraying the expenses of the University Athletic Association. Graduate students who use the gymnasium are also required to pay this fee.

Fees are charged, as below stated, for registration, for material consumed in the laboratories, and for diplomas.

No deduction is made at the Treasurer's office because of absence for a period of less than half a year, or because a student gives only a part of his time to study, or because he belongs to but one class. Prompt payment of fees is required.

Registration Fee and Caution Money

Every student is required at entrance to pay a registration fee of five dollars and deposit ten dollars as caution money, the latter being repaid to him when he leaves the university, if there are no charges against him.

Fees for Limited Attendance

Persons engaged in other pursuits—such as clergymen, lawyers, physicians, teachers,*—*who are able to give only a portion of their time to study, and who are prepared to follow graduate courses,* are permitted to attend certain courses of lectures, not exceeding five weekly, or to work in a scientific laboratory (without attendance on lectures) at such times as may be arranged with the Director thereof, on the payment, at entrance, of fifty dollars for the year, besides the registration fee and caution money. For a course of lectures not exceeding five weekly, with accompanying laboratory work, the fee is seventy-five dollars per annum.

Laboratory Charges

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordinate subject, twenty-four dollars a year; for graduates and special students following Chemistry as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Physics: For students who work two afternoons a week, twenty-four dollars a year; for those who take Physics as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Biology: For undergraduates and for graduates who take Zoology or Physiology as a subordinate subject, twenty-four dollars a year for graduates and special students following a biological science as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

*Teachers in the public and private schools of Maryland—*who are candidates for a degree and who are prepared to follow courses corresponding, in general, to those offered to undergraduate students,*—may be received on the payment of ten dollars for a course of one hour a week, twenty dollars for a course of two hours a week, etc., as explained in a special circular to be obtained from the Registrar of the University. Such persons will not be regarded as members of the University.

In Geology: Ten dollars a year; for a half-year, one-half of this amount.

Students taking courses in Geology are expected to take part in a series of excursions, and to pay their personal expenses, which will, however, in no case amount to more than $14.00.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Fellows by Courtesy and others who have the privileges of guests in the various laboratories, are expected to pay the usual laboratory charges.

Doctors of Philosophy of this university who desire to remain for a time in the university after having received their diplomas, may do so without charge for tuition, but they are required to pay the usual laboratory charges.

Exception to the foregoing charges can be made only at the written request of the Director of a laboratory, approved by the President of the university.

Graduation Fees

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy, ...	$10.00
Master of Arts,*	10.00
Bachelor of Arts, ...	5.00

B. In the Medical Department

The charge for tuition is two hundred dollars per annum, payable in semi-annual instalments, October 1 and February 1. There are no extra charges for matriculation, for graduation, for instruction in any department, or for laboratory courses, except in special cases for materials consumed. To a student who does not

*If a Master of Arts proceeds to the degree of Doctor of Philosophy, he will be charged but $5.00 additional for that degree.

possess a microscope, there is an annual charge of five dollars for the use of one, with an additional charge of two dollars for the use of an oil-immersion lens. One dollar is charged for the rental of a dissecting microscope for one year. The student is responsible for damage to the microscope thus rented. A deposit of ten dollars as caution money is required from each student at the time of his enrolment. The caution money is repaid to the student when he leaves, if there are no charges against him. Special charges are made for breakage and for damage to apparatus.

Payment of bills may be made at the office of the Registrar in the Physiological Building, which is open from 9 a. m. to 5 p. m., or at the office of the Treasurer of the University, on North Howard Street, which is open daily from 9 a. m. to 4.15 p. m.

The fees required of graduates of medical colleges who desire to follow special courses in medicine, are stated in detail in the annual catalogue of the medical department.

Living Expenses

The university has no dormitories or other living accommodations. Students may find comfortable homes in the vicinity,—in boarding houses or with families. The price of board ranges from three dollars and a half a week upward, and rooms from one dollar and a half a week.

Lists of desirable places are kept by the Secretary of the university branch of the Young Men's Christian Association and by the Registrar of the medical department.

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CALENDAR, 1911-1912

Wednesday, July 5–Wednesday, August 16—Summer Session.
Tuesday, October 3—Instruction begins.
Tuesday, October 10—College Courses for Teachers begin.
Thursday, November 30—Thanksgiving Day. All classes suspended.
Saturday, December 16—Last day for application for the University Scholarships.
Tuesday–Friday, December 19–22—Undergraduate Examinations.
Saturday, December 23—The Christmas Recess begins.
Monday, December 25—Christmas Day.

1912

Tuesday, January 2—Instruction resumed.
Thursday, February 22—Commemoration Day. All classes suspended. Public exercises at 11 o'clock.
Monday, April 1—Last day for application for the Johnston Scholarships and the Bruce Fellowship.
Friday, March 30–Wednesday, April 3—Undergraduate Examinations.
Thursday, April 4—The Easter Recess begins.
Thursday, April 11—Instruction resumed.
Wednesday, May 1—Last day for application for the University Fellowships.
Wednesday, May 1—Last day for application for the Hopkins Scholarships offered to graduate students from North Carolina and Virginia.
Friday, May 30–Thursday, June 6—Final Undergraduate Examinations.
Saturday, June 1—College Courses for Teachers close.
Monday–Thursday, June 3–6—Oral Examinations for the Degree of Doctor of Philosophy.
Tuesday–Friday, June 4–7—Entrance Examinations of Undergraduates.
Tuesday, June 11—Commencement Day. Public exercises at 4 o'clock.
Tuesday–Friday, September 24–27—Entrance Examinations of Undergraduates.
Tuesday, October 1—Instruction begins.
Thursday, November 28—Thanksgiving Day. All classes suspended.
Saturday, December 14—Last day for application for the University Scholarships.
Tuesday, December 24—The Christmas Recess begins.
Wednesday, December 25—Christmas Day.

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HISTORICAL STATEMENT

The Johns Hopkins University was founded by a merchant of Baltimore, Johns Hopkins, who bequeathed the greater part of his estate for the establishment of a university and a hospital. The University was incorporated August 24, 1867, the certificate of incorporation reading as follows:

CERTIFICATE OF INCORPORATION

Know all men by these presents, that we, Thomas M. Smith, William Hopkins, Lewis N. Hopkins, John W. Garrett, Alan P. Smith, John Fonerden, George W. Dobbin, George M. Gill, Andrew Sterett Ridgely, Thomas Donaldson, James A. L. McClure and Charles J. M. Gwinn, being citizens of the United States of America, and of the State of Maryland, and being desirous to form a corporation for the purpose of organizing a "University" for the promotion of education in the State of Maryland, do hereby declare and certify that we do, by this instrument of writing, and by virtue of and under the provisions of an Act of the General Assembly of Maryland, passed at the January session thereof in the year eighteen hundred and sixty-seven, and being the Act of eighteen hundred and sixty-seven, chapter three hundred and seventy-nine, form a corporation, under the name of "The Johns Hopkins University," for the promotion of education in the State of Maryland, which shall be governed and controlled by twelve Trustees, who shall manage the concerns thereof, and which said twelve Trustees shall be Francis T. King, Lewis N. Hopkins, Thomas M. Smith, William Hopkins, John Fonerden*, John W. Garrett, Francis White, Charles J. M. Gwinn,

* On the death of John Fonerden, James Carey Thomas was elected to fill the vacancy.

Galloway Cheston, George W. Dobbin, Reverdy Johnson, junior, and George William Brown, and which said University shall be located in Baltimore County, in the State of Maryland.

Witness our hands and seals, set hereto on this twenty-fourth day of August, in the year eighteen hundred and sixty-seven.

THOMAS M. SMITH,	(Seal)
WILLIAM HOPKINS,	(Seal)
LEWIS N. HOPKINS,	(Seal)
JOHN W. GARRETT,	(Seal)
ALAN P. SMITH,	(Seal)
JOHN FONERDEN,	(Seal)
GEORGE W. DOBBIN,	(Seal)
GEORGE M. GILL,	(Seal)
ANDREW STERETT RIDGELY,	(Seal)
THOMAS DONALDSON,	(Seal)
JAMES A. L. MCCLURE,	(Seal)
CHARLES J. M. GWINN,	(Seal)

Witness: ALLEN E. FORRESTER.

The following amendments to the charter have been enacted by the State Legislature:

I

AN ACT to grant certain additional powers to "The Johns Hopkins University," a corporation incorporated under the General Laws of Maryland.

Section 1. Be it enacted by the General Assembly of Maryland, That "The Johns Hopkins University," a corporation duly incorporated by certificate, recorded in the office of the Clerk of the Circuit Court for Baltimore County, shall have power to establish branches of the said University in the City of Baltimore, to hold, or to purchase and hold, all property in said City needed for the successful conducting of the branches of the said University in said City, and to keep and maintain a principal office in said City for the conduct of the business of the said University.

Section 2. And be it enacted, That the said "The Johns Hopkins University" shall have power to admit students of the said University, who shall merit the distinction, to the office and profession of Surgeon, or to the degree of Doctor of Medicine, or of Doctor of Laws, or of Bachelor or Master of Arts; to grant to students in said University such certificates of proficiency and attainments in any special study as the said University may see proper to confer; and to grant the honorary degrees of Doctor of Laws, Doctor of Medicine, and Master of Arts, or such other degrees as may be proper, to any person who may merit such distinction, whether such person be a student of said University or not.

Section 3. And be it enacted, That this Act shall take effect from its passage.

Approved March 22, 1876.

II

AN ACT to authorize the Trustees of the Johns Hopkins University, a corporation incorporated under the General Laws of Maryland, to make and constitute the President for the time being of its University and each of his successors in said office, during their respective terms thereof, a member ex-officio of the Board of Trustees of the Johns Hopkins University, in addition to the number of twelve Trustees of said University now authorized by law.

Section 1. Be it enacted by the General Assembly of Maryland, That the Trustees of the Johns Hopkins University, a corporation duly incorporated by certificate under the General Laws of Maryland, be and they are hereby authorized and empowered to make and constitute the President for the time being of the Johns Hopkins University and each of his successors in said office, during their respective terms thereof, a member ex-officio of said Board of Trustees in addition to the number of twelve Trustees of said University now authorized by law.

Section 2. And be it enacted that this Act shall take effect from the date of its passage.

Approved April 4, 1892.

As stated in the foregoing certificate, the corporate name of the institution is "The Johns Hopkins University."

The Board of Trustees organized June 13, 1870, and held their first business meeting February 6, 1874. The founder had died December 24, 1873, in the seventy-ninth year of his age,—having been born May 19, 1795. The election of a President of the University took place December 30, 1874, the choice falling upon Daniel Coit Gilman, at that time President of the University of California. President Gilman was inaugurated February 22, 1876, and instruction began October 3, following. The Johns Hopkins Hospital was dedicated May 7, 1889, and this paved the way for the opening of the medical school of the University four years later (October 1, 1893).

President Gilman resigned his office February 22, 1901, after a service of twenty-five years, and he was succeeded

by Ira Remsen, Professor of Chemistry in the University, whose election took place June 3, 1901. On the twenty-first and twenty-second of February, 1902, the University celebrated the completion of twenty-five years of work, and President Remsen was inaugurated.

The work of the University began in two houses at the corner of Howard and Little Ross Streets, in Hopkins Hall and a chemical laboratory on Little Ross Street,—the last two buildings having been erected by the Trustees. As the need arose, other buildings were constructed,—including a considerable addition to the chemical laboratory, a biological laboratory, a physical laboratory, a gymnasium, a home for the Young Men's Christian Association (the gift of Mr. Eugene Levering), and finally McCoy Hall, a large central building containing offices of administration, assembly room, the general library, and numerous smaller rooms for seminaries, department libraries, classes in languages, history, etc. The medical school is housed in several buildings in another section of the city, adjoining the Johns Hopkins Hospital.

The Hospital forms a part of the medical school of the University, in accordance with the expressed wish of the founder. It occupies a commanding site facing North Broadway. The buildings include a central structure chiefly devoted to administration, two large private wards, a considerable number of separate buildings containing the public wards, a large dispensary building, a surgical building and amphitheatre, a pathological institute, and a nurses' home. The Harriet Lane Home for Invalid Children, the Phipps Psychiatric Clinic, and the Phipps Dispensary for the Treatment of Tuberculosis are important adjuncts to the Hospital and are situated within its grounds.

At the time of President Remsen's inauguration, it was announced that a suburban site had been given to the University by Messrs. William Wyman, William Keyser,

Francis M. Jencks, Julian LeRoy White, and William H. Buckler, of Baltimore, and Samuel Keyser, of New York. This site comprised originally one hundred and seventy-six acres of land within the city limits, about two miles directly north of the Washington Monument. Fifty-six acres have been deeded to the city for a public park. The hope was expressed by the donors that the sum of one million dollars would be contributed by the friends of the University within a certain time, to be added to the permanent endowment funds of the University. This hope was realized July 1, 1902. The development of the new site is in progress. A botanical laboratory and a greenhouse have been erected, and a fine athletic field is now in use by the students. A general scheme of arrangement of the future buildings has been adopted by the trustees, as the result of a competition by selected architects, and the plans of several of the most important structures have been completed. The funds required for these buildings have not yet been supplied, and, until that need is met, a removal is not possible.

The original endowment of the University amounted to somewhat over $3,000,000. This has been supplemented by several gifts, including the Endowment Fund of 1902 ($1,000,000), the John W. McCoy Fund ($500,000), the Women's Medical School Fund ($100,000), the Mary Elizabeth Garrett Fund ($307,000), the Adoniram J. Robinson Fund ($42,000), the Herbert B. Adams Fund ($42,000), the Johnston Scholarship Fund ($90,000), the Donovan Fund ($100,000), and several others. The income-bearing funds have a "book value" of $4,580,000; the real estate and buildings, books, scientific apparatus, and general equipment are valued at $1,900,000. The assets of the University have thus a total value of about $6,500,000.

In June, 1909, the General Education Board offered to contribute to the University the sum of $250,000 towards the endowment, provided the institution should secure, on or before December 31, 1910, a supplemental sum of

$750,000, in cash or pledges. Under the terms of this offer one-half of the million dollars thus acquired may be used in the construction of buildings; the remainder is to be added to the permanent endowment. A General Committee was organized in the Summer of 1910, and, aided by an Alumni Committee, a Citizens' Committee, and a Ladies' Committee, secured by the end of the year $943,177, more than sufficient to meet the condition imposed by the General Education Board.

The Legislature of Maryland at its last session made an appropriation of $25,000 a year for 1911 and for 1912.

BOARD OF TRUSTEES

R. Brent Keyser, *President*
Eugene Levering
Bernard N. Baker
Francis M. Jencks
Theodore Marburg
Blanchard Randall
Henry D. Harlan
Miles White, Jr.
William H. Buckler
Thomas J. Morris
B. Howell Griswold, Jr.

The President of the University, *ex officio*

COMMITTEES

Executive Committee

Blanchard Randall
Eugene Levering
Theodore Marburg
Miles White, Jr.
Francis M. Jencks

The President of the University, *ex officio*

Finance Committee

Miles White, Jr.
Eugene Levering
Blanchard Randall

Building Committee

Bernard N. Baker
Francis M. Jencks
William H. Buckler

Homewood Committee

Blanchard Randall
Eugene Levering
Theodore Marburg
Miles White, Jr.
Francis M. Jencks

The President of the Board is *ex officio* a member of all committees.

TREASURER OF THE UNIVERSITY

W. Graham Boyce

ALUMNI COUNCIL

Charles M. Andrews
Thomas S. Baker
Thomas R. Brown
Elgin R. L. Gould
B. Howell Griswold, Jr.
J. H. Mason Knox
Allan McLane (*Chairman*)
Charles P. Neill
Walter H. Page
J. Hall Pleasants
Joseph H. Pratt
George L. Radcliffe (*Secretary*)
St. George L. Sioussat
Kirby Flower Smith (*ex-officio*)
C. Morton Stewart, Jr.
Douglas H. Thomas, Jr.
William F. Willoughby

FACULTY

Arranged in the several groups in the order of appointment

IRA REMSEN, M. D., PH. D., LL. D., *President of the University and B. N. Baker Professor of Chemistry.* 214 W. Monument St.

A. B., College of the City of New York, 1865; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1867; Ph. D., University of Goettingen, 1870; LL. D., Columbia University, 1893, Princeton University, 1896, Yale University, 1901, University of Toronto, 1902, Harvard University, 1909, Pennsylvania College, 1910; D. C. L., University of the South, 1907; Professor of Chemistry in Williams College, 1872-76, and previously Assistant in Chemistry in the University of Tuebingen; Foreign Member, Chemical Society of London; Honorary Member, Chemical Society of France; Secretary of the Academic Council, 1887-1901; Director of the Chemical Laboratory, 1876-1908; President of the National Academy of Sciences, 1907-; Medalist of the Society of Chemical Industry, 1904, and President, 1909-1910; *Editor of the American Chemical Journal.*

BASIL L. GILDERSLEEVE, PH. D., LL. D., D. LITT., *Francis White Professor of Greek.* 1002 N. Calvert St.

A. B., Princeton University, 1849, and A. M., 1852; Ph. D., University of Goettingen, 1853; LL. D., College of William and Mary, 1869, Harvard University, 1886, University of Chicago, 1901, and Yale University, 1901; D. C. L., University of the South, 1884; L. H. D., Princeton University, 1899; Hon. Litt. D. (Cantab.), Hon. D. Litt. (Oxon.), 1905; Professor of Greek in the University of Virginia, 1856-76; Professor of Latin in the University of Virginia, 1861-66; Hon. Member of the Cambridge Philological Society, of the Philological Syllogos of Constantinople, of the Archaeological Society of Athens, and of the Society for the Promotion of Hellenic Studies; Corresponding Fellow of the British Academy, 1907; *Editor of the American Journal of Philology.*

PAUL HAUPT, PH. D., LL. D., K. R. E., *W. W. Spence Professor of the Semitic Languages and Director of the Oriental Seminary.*

Gymnasium Augustum, Goerlitz, 1876; Ph. D., University of Leipsic, 1878; LL. D., University of Glascow, 1902; Privatdocent in the University of Goettingen, 1880-88, and Professor of Assyriology in the same, 1883-89; Honorary Curator of the Division of Historic Archaeology, U. S. National Museum; Knight of the Royal Prussian Order of the Red Eagle; *Co-editor of the Assyriological Library, and of Contributions to Assyriology and Comparative Semitic Philology; Editor of the Sacred Books of the Old Testament.*
215 Longwood Rd., Roland Park.

WILLIAM H. WELCH, M. D., LL. D., *Baxley Professor of Pathology.*

A. B., Yale University, 1870; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1875; M. D. (Hon.), University of Pennsylvania, 1894; LL. D., Western Reserve University, 1894, Yale University, 1896, Harvard University, 1900, University of Toronto, 1903, and Columbia University, 1904; Professor of Pathological Anatomy and General Pathology in the Bellevue Hospital Medical College, 1879-84; Dean of the Medical Faculty, 1889-98; Member of the National Academy of Sciences; Hon. Member, Viennese Society of Physicians; President of the Board of Directors of the Rockefeller Institute for Medical Research; *Pathologist to the Johns Hopkins Hospital.*
807 St. Paul St.

EDWARD H. GRIFFIN, D. D., LL. D., *Professor of the History of Philosophy and Dean of the College Faculty.*

A. B., Williams College, 1862, and A. M., 1865; Union Theological Seminary, N. Y., 1867; D. D., Amherst College, 1880; LL. D., Princeton University, 1888, and Williams College, 1905; Professor of Latin in Williams College, 1872-81, Professor of Rhetoric, 1881-86, and Mark Hopkins Professor of Intellectual and Moral Philosophy, 1886-89; *Secretary of the Academic Council.*
1027 N. Calvert St.

WILLIAM OSLER, M. D., LL. D., D. C. L., F. R. S., *Honorary Professor of Medicine.* Oxford, England.

M. D., McGill University, 1872; LL. D., McGill, 1895, Aberdeen, 1898, Toronto, 1899, Yale, 1901, Harvard, 1904, Johns Hopkins, 1905; D. C. L., Edinburgh, 1898, and Trinity University (Toronto), 1902; M. D. (Hon.), University of Oxford, 1905; Fellow of the Royal Society of London; Fellow of the Royal College of Physicians, London; Professor of the Institutes of Medicine, McGill University, 1874-84; Professor of Clinical Medicine, University of Pennsylvania, 1884-89; Dean of the Medical Faculty, 1898-99; Professor of the Principles and Practice of Medicine, 1889-1905; Physician-in-Chief, the Johns Hopkins Hospital, 1889-1905; Regius Professor of Medicine, University of Oxford.

HENRY M. HURD, M. D., LL. D., *Professor Emeritus of Psychiatry.*

A. B., University of Michigan, 1863, M. D., 1866, A. M., 1870, and LL. D., 1895; Superintendent of the Eastern Michigan Hospital, 1878-89; Professor of Psychiatry, Johns Hopkins University, 1889-1906; *Editor of the Johns Hopkins Hospital Bulletin and of the Johns Hopkins Hospital Reports; Editor of the American Journal of Insanity; Superintendent of the Johns Hopkins Hospital.*

1023 St. Paul Street.

HOWARD A. KELLY, M. D., LL. D., HON. F. R. C. S., *Professor of Gynecology.* 1406 Eutaw Place.

A. B., University of Pennsylvania, 1877, M. D., 1882, and Associate Professor of Obstetrics, 1888-89; LL. D., University of Aberdeen, 1906, Washington and Lee University, 1906, University of Pennsylvania, 1907; Associate Foreign Member of the Society of Obstetrics, Gynecology and Pediatrics, and of the Chirurgical Society, Paris; Corresponding Member, Obstetrical Society, Leipsig; Fellow, British Gynecological Society; Hon. Fellow of the Edinburgh Obstetrical Society, Glasgow Obstetrical and Gynecological Society, Royal Academy of Medicine (Ireland), Royal College of Surgeons, Edinburgh; Hon. Member of the Royal Medical Society of Edinburgh and of the Italian Society of Obstetrics and Gynecology, Rome; Fellow of the American Gynecological Society; *Gynecologist in Chief to the Johns Hopkins Hospital.*

MAURICE BLOOMFIELD, PH. D., LL. D., *Professor of Sanskrit and Comparative Philology.* 861 Park Ave.

A. M., Furman University, 1877; Fellow, Johns Hopkins University, 1878-79, and Ph. D., 1879; LL. D., Princeton University, 1896, Furman University, 1908; Foreign Member, Royal Bohemian Society in Prague, 1896; Honorary Member, Finno-Ugrian Society, Helsingfors, 1898; Hardy Prize of the Royal Bavarian Academy of Sciences in Munich, 1908; President of the American Oriental Society, 1910-11.

*A. MARSHALL ELLIOTT, PH. D., LL. D., *Professor of the Romance Languages.*

A. B., Haverford College, 1866, and A. M., 1878; A. B., Harvard University, 1868; Ph. D. (Hon.), Princeton University, 1877; LL. D. Wake Forest College, 1891, and Haverford College, 1908; Chevalier of the Legion of Honor of France; *Editor of Modern Language Notes.*

WILLIAM S. HALSTED, M. D., D. SC., LL. D., HON. F. R. C. S., *Professor of Surgery.* 1201 Eutaw Place.

A. B., Yale University, 1874; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1877, and D. Sc., 1904; LL. D., Yale University, 1904, and University of Edinburgh, 1905; Honorary Fellow of the Royal College of Surgeons, London, 1900, and Edinburgh, 1905; formerly Attending Surgeon to the Presbyterian and Bellevue Hospitals, Chief Surgeon to the Roosevelt Hospital Dispensary, and Surgeon in Chief to the Emigrant Hospital, New York; *Surgeon in Chief to the Johns Hopkins Hospital.*

HARMON N. MORSE, PH. D., *Professor of Inorganic and Analytical Chemistry and Director of the Chemical Laboratory.*

A. B., Amherst College, 1873; Ph. D., University of Goettingen, 1875; Instructor in Chemistry, Amherst College, 1875-76; Member of the National Academy of Sciences; Foreign Member, Utrecht Society of Arts and Sciences.

The Cecil, N. Eutaw St.

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*Died November 9, 1910.

HENRY WOOD, PH. D., K. R. E., *Professor of German.* 109 W. North Av.

A. B. Haverford College, 1869; Ph. D., University of Leipsic, 1879; President of the American Folk-Lore Society, 1898; Knight of the Royal Prussian Order of the Red Eagle, 1910.

EDWARD RENOUF, PH. D., *Collegiate Professor of Chemistry.*

Ph. D., University of Freiburg, 1880; Assistant in Chemistry in the University of Munich, 1880-85.

416 W. Hoffman St.

JOHN J. ABEL, M. D., *Professor of Pharmacology.*

Ph. B., University of Michigan, 1883, and A. M. (Hon.), 1903; M. D., University of Strassburg, 1888; Professor of Materia Medica and Therapeutics, University of Michigan, 1891-93; *Co-editor of the Journal of Biological Chemistry; Editor of the Journal of Pharmacology and Experimental Therapeutics.*

Charles St. Av. (P. O. Sta. L.)

WILLIAM H. HOWELL, PH. D., M. D., LL. D., *Professor of Physiology.*

A. B., Johns Hopkins University, 1881, Fellow, 1882-84, and Ph. D., 1884; LL. D. Trinity College (Conn.), 1901; M. D. (Hon.), University of Michigan, 1890, and Lecturer and Professor of Physiology and Histology, 1889-92; Associate Professor of Physiology, Harvard University, 1892-93; Member of the National Academy of Sciences; Dean of the Medical Faculty, 1899-1911; *Associate Editor of the American Journal of Physiology.* 232 W. Lanvale St.

FRANKLIN P. MALL, M. D., SC. D., LL. D., *Professor of Anatomy.*

M. D., University of Michigan, 1883, A. M. (Hon.), 1900, and Sc. D. 1908; LL. D., University of Wisconsin, 1904; Fellow, Johns Hopkins University, 1886-88, and Instructor in Pathology, 1888-89; Adjunct Professor of Vertebrate Anatomy, Clark University, 1889-92; Professor of Anatomy, University of Chicago, 1892-93; Member of the National Academy of Sciences; *Co-editor of the American Journal of Anatomy and of the Journal of Morphology.*

1514 Bolton St.

JAMES W. BRIGHT, PH. D., LL. D., LITT., D. *Caroline Donovan Professor of English Literature.* 246 W. Lanvale St.

A. B., Lafayette College, 1877; Fellow, Johns Hopkins University, 1880-1882, and Ph. D., 1882; LL. D., Wake Forest College, 1907; Litt. D., Lafayette College, 1907; Hon. Secretary for America (South and West) of the Early English Text Society; *Member of the Advisory Board of Modern Philology, and of the Editorial Committee of the Modern Language Association of America; Co-editor of Modern Language Notes.*

WILLIAM HAND BROWNE, M. D., *Professor Emeritus of English Literature.* Sherwood.

M. D., University of Maryland, 1850; Librarian and Associate, 1879-91.

HERBERT EVELETH GREENE, PH. D., *Collegiate Professor of English.*

A. B., Harvard University, 1881, A. M., 1884, and Ph. D., 1888; Professor of English in Wells College, 1891-93.

1019 St. Paul St.

WM. BULLOCK CLARK, PH. D., LL. D., *Professor of Geology and Director of the Geological Laboratory.* 8 E. Read St.

A. B., Amherst College, 1884; Ph. D., University of Munich, 1889; LL. D., Amherst College, 1908; Foreign Correspondent, Geological Society of London; Member of the National Academy of Sciences; *Associate Editor of the Journal of Geology; Director of the Maryland State Weather Service; Executive Officer and Member of the Maryland State Forestry Commission; State Geologist of Maryland.*

LORRAIN S. HULBURT, PH. D., *Collegiate Professor of Mathematics.*

A. B., University of Wisconsin, 1883, and A. M., 1888; Professor of Mathematics, University of South Dakota, 1887-91; Fellow, Clark University, 1891-92; Ph. D., Johns Hopkins University, 1894.

Wyndhurst Av., Embla Park.

JOSEPH S. AMES, PH. D., LL. D., *Professor of Physics and Director of the Physical Laboratory.* 225 W. Preston St.

A. B., Johns Hopkins University, 1886, Fellow, 1887-88, and Ph. D., 1890; LL. D., Washington College, 1907; Honorary Member of the Royal Institution of Great Britain and of the French Physical Society; Member of the National Academy of Sciences; *Assistant Editor of the Astrophysical Journal; Associate Editor of the American Journal of Science.*

J. WHITRIDGE WILLIAMS, M. D., D. SC., *Professor of Obstetrics and Dean of the Medical Faculty.* 1128 Cathedral St.

A. B., Johns Hopkins University, 1886; M. D., University of Maryland, 1888, and D. Sc. (Hon.), 1907; Gynecologist, Union Protestant Infirmary; *Obstetrician in Chief to the Johns Hopkins Hospital.*

FRANK MORLEY, SC. D., *Professor of Mathematics.* 2026 Park Av.

A. B., University of Cambridge, 1883, A. M., 1886, and Sc. D., 1898; Professor in Haverford College, 1888-1900; *Co-editor of the Bulletin of the American Mathematical Society; Editor of the American Journal of Mathematics.*

WILLIAM J. A. BLISS, PH. D., *Collegiate Professor of Physics.*

A. B., Harvard University, 1888; Ph. D., Johns Hopkins University, 1894. 1017 St. Paul St.

HARRY FIELDING REID, PH. D., *Professor of Dynamic Geology and Geography.* 608 Cathedral St.

A. B., Johns Hopkins University, 1880, Fellow, 1882, and Ph. D., 1885; Professor of Mathematics (1886-89) and of Physics (1889-94), Case School of Applied Science; Associate Professor of Physical Geology, University of Chicago, 1895-97.

ROBERT W. WOOD, A. B., LL. D., *Professor of Experimental Physics.*

A. B., Harvard University, 1891; LL. D., Clark University, 1909; Honorary Fellow in Chemistry, University of Chicago, 1892-94; Fellow of the London Physical Society; Hon. Fellow of the Royal Microscopical Society, London; Instructor and Assistant Professor of Physics in the University of Wisconsin, 1897-1901; Rumford Medalist, American Academy of Arts and Sciences, 1909. [Absent on leave, in Europe.]

KIRBY FLOWER SMITH, PH. D., LL. D., *Professor of Latin.*

A. B., University of Vermont, 1884, and LL. D., 1910; Ph. D., Johns Hopkins University, 1889. 719 Park Av.

JACOB H. HOLLANDER, PH. D., *Professor of Political Economy.*

A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894; Treasurer of the Island of Porto Rico, 1900-01; Special Commissioner Plenipotentiary to Santo Domingo, 1905-06; Financial Adviser of the Dominican Republic, 1908-10. 1802 Eutaw Place.

EDWARD B. MATHEWS, PH. D., *Professor of Mineralogy and Petrography.* 1410 Linden Av.

A. B., Colby University, 1891; Fellow, Johns Hopkins University, 1893-94, and Ph. D., 1894; *Assistant State Geologist of Maryland.*

HARRY C. JONES, PH. D., *Professor of Physical Chemistry.*

A. B., Johns Hopkins University, 1889, Fellow, 1891-92, and Ph. D., 1892; *Co-editor, Journal de Chimie Physique (Geneve); Assistant Editor, Physikalisch-chemisches Centralblatt.* 2523 Madison Av.

LEWELLYS F. BARKER, M. D., LL. D., *Professor of Medicine.*

M. B., University of Toronto, 1890, and M. D. (Hon.), 1905; LL. D., Queen's University (Ont.), 1908; Assistant Physician, Assistant Resident Pathologist, and Resident Pathologist, the Johns Hopkins Hospital, 1891-1900; Fellow in Pathology, Johns Hopkins University, 1892-94, Associate in Anatomy, 1894-97, Associate Professor of Anatomy, 1897-99, and of Pathology, 1899-1900; Professor and Head of the Department of Anatomy, University of Chicago, 1900-04, and Professor of Medicine (Rush Medical College), 1904-05; *Physician in Chief to the Johns Hopkins Hospital.* 1035 N. Calvert St.

WILLIAM S. THAYER, M. D., LL. D., *Professor of Clinical Medicine.*

A. B., Harvard University, 1885, and M. D. 1889; LL. D., Washington College, 1907; Resident Physician, the Johns Hopkins Hospital, 1891-98, and Associate in Medicine, 1899-1905; Head of the Medical Clinic, the Johns Hopkins Dispensary, 1898-1905; *Associate Physician, the Johns Hopkins Hospital.*

406 Cathedral St.

JOHN MARTIN VINCENT, PH. D., LL. D., *Professor of European History.*

313 Forest Road, Roland Park.

A. B., Oberlin College, 1883, and A. M., 1888; Ph. D., Johns Hopkins University, 1890; LL. D., Illinois College, 1904, and Oberlin College, 1908; Honorary Docteur en Droit, University of Geneva, 1909; Corresponding Member of the Institut National Genevois and of the Sociological Society of London.

C. CARROLL MARDEN, PH. D., *Professor of Spanish.*

A. B., Johns Hopkins University, 1889, and Ph. D., 1894; Instructor, University of Michigan, 1890-91; Member of the Hispanic Society of America; Corresponding Member of the Royal Spanish Academy; *Managing Editor of Modern Language Notes.*

2416 N. Calvert St.

WESTEL W. WILLOUGHBY, PH. D., *Professor of Political Science.*

A. B., Johns Hopkins University, 1888, Fellow, 1890-91, and Ph. D., 1891; Secretary and Treasurer, American Political Science Association; *Managing Editor of the American Political Science Review.*

8 Club Road, Roland Park.

DUNCAN S. JOHNSON, PH. D., *Professor of Botany.*

A. B., Wesleyan University, 1892; Fellow, Johns Hopkins University, 1896-97, Ph. D., 1897, and Bruce Fellow, 1897-98; in charge of Cryptogamic Botany, Marine Laboratory of the Brooklyn Institute; Secretary, Botanical Society of America.

23 Merrymount Road, Roland Park.

HARRY L. WILSON, PH. D., LL. D., *Professor of Roman Archaeology and Epigraphy.*

114 St. John's Rd., Roland Park.

A. B., Queen's University (Ont.), 1887, A. M., 1888, and LL. D., 1903; Fellow, Johns Hopkins University, 1895, and Ph. D., 1896; Professor of Latin, American School of Classical Studies in Rome, 1906-07; Foreign Member of the Imperial German Archaeological Institute.

HERMANN COLLITZ, PH. D., *Professor of Germanic Philology.*

Gymnasium Johanneum, Lüneburg, 1875; Ph. D., University of Goettingen, 1879; Assistant Librarian and Privatdocent, University of Halle, 1883-86; Associate Professor and Professor of Comparative Philology and German, Bryn Mawr College, 1886-1907; *Co-editor of Modern Language Notes.*

135 W. Mt. Royal Av.

HERBERT S. JENNINGS, PH. D., LL. D., *Henry Walters Professor of Zoology and Director of the Zoological Laboratory.*

S. B., University of Michigan, 1893; A. M., Harvard University, 1895, and Ph. D., 1896; LL. D., Clark University, 1909; Assistant Professor, University of Michigan, 1900-03, and University of Pennsylvania, 1903-06; Honorary Fellow, Royal Microscopical Society of London; *Associate Editor, Journal of Animal Behavior,* and *Journal of Experimental Zoology.*

2442 N. Calvert St.

WILFRED P. MUSTARD, PH. D., *Collegiate Professor of Latin.*

A. B., University of Toronto, 1886, A. M., 1890, and Fellow, University College, 1886-89; Fellow, Johns Hopkins University, 1890-91, and Ph. D., 1891; American School of Classical Studies in Rome, 1902-03; Professor of Latin in Colorado College, 1891-93; Instructor in Haverford College, 1893-94, and Professor of Latin, 1894-1907.

18 W. Hamilton St.

EDWARD FRANKLIN BUCHNER, PH. D., *Professor of Education and Philosophy and Director of the Summer School.*

A. B., Leander Clark College, 1889, and A. M., 1892; Ph. D., Yale University, 1893, Lecturer and Instructor in Philosophy and Pedagogy, 1892-97; Professor of Analytical Psychology, New York University, 1896-1901; Docent, Clark University, 1901-03; Professor of Philosophy and Education, University of Alabama, 1903-08; *Co-operating Editor, The Psychological Bulletin.*

2120 Callow Av.

JOHN BROADUS WATSON, PH. D., *Professor of Experimental and Comparative Psychology and Director of the Psychological Laboratory.* 2745 Maryland Av.

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A. B., Johns Hopkins University, 1901, and M. D., 1905; *Assistant Surgeon, the Johns Hopkins Dispensary.*

2319 Linden Av.

CHARLES M. BYRNES, M. D., *Instructor in Neurology.*

S. B., University of North Carolina, 1902; M. D., Johns Hopkins University, 1906; Adjunct Professor of Anatomy, University of Virginia, 1908-09; *Assistant Neurologist, the Johns Hopkins Dispensary.*

207 E. Preston St.

JOHN W. CHURCHMAN, M. D., *Instructor in Surgery.*

A. B., Princeton University, 1898, and A. M., 1901; M. D., Johns Hopkins University, 1902; *Resident Surgeon, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

J. STAIGE DAVIS, M. D., *Instructor in Surgery.*

Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Assistant Surgeon, the Johns Hopkins Dispensary.*

1200 Cathedral St.

FRANKLIN EDGERTON, PH. D., *Instructor in Sanskrit and Comparative Philology.* 227 W. Monument St.

A. B., Cornell University, 1905; Fellow, Johns Hopkins University, 1907-09, and Ph. D., 1909.

CHARLES R. ESSICK, M. D., *Instructor in Anatomy.*

A. B., Yale University, 1905; M. D., Johns Hopkins University, 1909.

1731 N. Broadway.

WILLIAM A. FISHER, M. D., *Instructor in Surgery.* 715 Park Av.

A. B., Princeton University, 1896; M. D., Johns Hopkins University, 1900; *Assistant Surgeon, the Johns Hopkins Dispensary.*

WILLIS D. GATCH, M. D., *Assistant in Surgery.*

A. B., Indiana University, 1901; M. D., Johns Hopkins University, 1907; *Assistant Resident Surgeon and Anaesthetist, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

EUGENE J. LEOPOLD, M. D., *Assistant in Medicine.* 803 Park Av.

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Assistant Physician, the Phipps Dispensary.*

DAVID I. MACHT, M. D., *Assistant in Medicine.* 1511 Madison Av.

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Externe, Phipps Dispensary.*

CHARLES AUGUSTUS MYERS, A. B., *Instructor in English.*

A. B., Johns Hopkins University, 1902, and Fellow, 1906-08; Instructor in English, University of Missouri, 1908-09.

1421 W. Franklin St.

OMAR B. PANCOAST, M. D., *Instructor in Surgery.*

S. B., Swarthmore College, 1893; M. D., Johns Hopkins University, 1897; *Assistant Surgeon, the Johns Hopkins Dispensary.*

1500 Madison Av.

EDWARD H. RICHARDSON, M. D., *Instructor in Gynecology.*

A. B., Hampden-Sidney College, 1900; M. D., Johns Hopkins University, 1905; *Assistant Gynecologist, the Johns Hopkins Dispensary.*

216 E. Preston St.

THOMAS P. SPRUNT, M. D., *Instructor in Pathology.*

A. B., Davidson College, 1903; M. D., Johns Hopkins University, 1909; *Assistant Resident Pathologist, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

WILLIAM WALKER STRONG, PH. D., *Assistant in Chemistry.*

S. B., Dickinson College, 1905; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908.

1741 McCulloh St.

GEORGE S. BOND, M. D., *Assistant in Medicine.* 1017 N. Broadway.

S. B., Earlham College, 1903; A. B., University of Michigan, 1905, and M. D., 1908.

ALEXIUS MCGLANNAN, M. D., *Voluntary Assistant in Surgery.*

M. D., College of Physicians and Surgeons (Balt.), 1895.

114 W. Franklin St.

HERBERT D. AUSTIN, A. M., *Instructor in French.*

A. B., Princeton University, 1900, and A. M., 1901.

2430 Maryland Av.

HOWARD E. ASHBURY, M. D., *Assistant in Surgery.*

Ph. G., Maryland College of Pharmacy, 1899; M. D., University of Maryland, 1903.

1017 Cathedral St.

CHARLES R. AUSTRIAN, M. D., *Assistant in Medicine.*

A. B., Johns Hopkins University, 1904, and M. D., 1909; *Assistant Resident Physician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

WALTER A. BAETJER, M. D., *Assistant in Medicine.*

A. B., Johns Hopkins University, 1905, and M. D., 1909; *Assistant Resident Physician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

WILLIAM E. BURGE, PH. D., *Assistant in Physiology.*

A. B., Randolph-Macon College, 1903, and A. M., 1906; Fellow, Johns Hopkins University, 1908-09, and Ph. D., 1909; Instructor in Physiology, New York University, 1909-10.

1028 N. Broadway.

TRIGANT BURROW, M. D., PH. D., *Assistant in Medicine.*

A. B., Fordham University, 1895; M. D., University of Virginia, 1899; Ph. D., Johns Hopkins University, 1909, and Assistant in Psychology, 1907-09.

707 St. Paul St.

SAMUEL J. CROWE, M. D., *Assistant in Surgery.* The Cecil.

A. B., University of Georgia, 1904; M. D., Johns Hopkins University, 1908.

ERNEST K. CULLEN, M. B., *Instructor in Gynecology.*

M. B., University of Toronto, 1903; Fellow, Johns Hopkins University, 1905-06; *Resident Gynecologist, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

WALTER E. DANDY, M. D., *Assistant in Surgery.*

A. B., University of Missouri, 1907; M. D., Johns Hopkins University, 1910.

1029 N. Broadway.

FRANKLIN HAZLEHURST, JR., M. D., *Assistant in Laryngology and Rhinology.* 203 W. Lanvale St.

A. B., Johns Hopkins University, 1903, and M. D., 1907; *Assistant Laryngologist, the Johns Hopkins Dispensary.*

WILLIAM F. MCPHEDRAN, M. B., *Assistant in Medicine.*

A. B., University of Toronto, 1905, and M. B., 1907; *Assistant Resident Physician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

ARTHUR H. MORSE, M. D., *Instructor in Obstetrics.*

A. B., Tufts College, 1902; M. D., The Johns Hopkins University, 1906; *Resident Obstetrician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

FLORA POLLACK, M. D., *Assistant in Gynecology.*

M. D., Woman's Medical College (Balt.), 1891; *Assistant, the Johns Hopkins Dispensary.*

330 N. Charles St.

JOHN T. SAMPLE, M. D., *Assistant in Medicine.*

A. B., University of Michigan, 1906, and M. D., 1908; *Assistant Resident Physician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

MARTIN F. SLOAN, M. D., *Assistant in Medicine.* Towson.

M. D., Baylor University, 1907; Resident Physician, Eudowood Sanatorium; *Externe, Phipps Dispensary.*

CARROLL M. SPARROW, A. B., *Instructor in Physics.*

A. B., Johns Hopkins University, 1908, and Fellow, 1909-10.

902 St. Paul St.

HEDLEY V. TWEEDIE, M. D., *Assistant in Ophthalmology and Otology.*

M. D., Baltimore Medical College, 1897; *Assistant in Ophthalmology and Otology, the Johns Hopkins Dispensary.*

508 Park Av.

ERNEST I. WERBER, PH. D., *Assistant in Anatomy.* 131 Irvine Pl.

Ph. D., University of Vienna, 1908; Assistant, University of California, 1908-09; Assistant Professor, New Mexico College of Agriculture and Mechanic Arts, 1909-10.

KARL M. WILSON, M. D. C. M., *Assistant in Obstetrics.*

M. D. C. M., McGill University, 1908; *Assistant Resident Obstetrician, the Johns Hopkins Hospital.*

The Johns Hopkins Hospital.

CLINTON D. DEMING, M. D., *Assistant in Pathology.*

A. B., Yale University, 1907; M. D., Johns Hopkins University, 1910.

703 E. Forty-first St.

LLOYD P. SHIPPEN, M. D., *Assistant in Hygiene and Bacteriology.*

A. B., Johns Hopkins University, 1902; M. D., University of Pennsylvania, 1907.

209 W. Monument St.

RALPH DUFFY, M. D., *Assistant in Physiology.*
A. B., Johns Hopkins University, 1898, and M. D., 1902.

JOHANNA GELIEN, M. D., *Voluntary Assistant in Medicine.*
M. D., Gross Medical College (Denver), 1908. 1222 N. Broadway.

PAUL TITUS, M. D., *Voluntary Assistant in Obstetrics.*
M. D., Yale University, 1908; Assistant, University of Heidelberg, 1909-10.

LECTURERS DURING THE YEAR 1910-11

Poetry

MAURICE FRANCIS EGAN, LL. D., United States Minister to Denmark.

Eight public lectures on *Typical Christian Hymns*. [Percy Turnbull Memorial Foundation.]

History of Religions

Professor J. J. M. DE GROOT, PH. D., of the University of Leyden.

Six public lectures on *The Development of Religious Ideas in China*.

Historical Geography

Professor EUGEN OBERHUMMER, PH. D., of the University of Vienna.

Three public lectures.

History and Politics

Professor JOHN BASSETT MOORE, PH. D., LL. D., of Columbia University.

Four public lectures on *Four Stages of American Development*. [James Schouler Foundation.]

Professor HANS CHIARI, M. D., of the University of Strassburg.

Three public lectures. [Herter Foundation.]

Dr. ALBERT VON LE COQ, Traveller and Archaeologist.

Two public lectures on *Travels and Explorations in Chinese Turkestan*.

DR. S. WEIR MITCHELL, of Philadelphia.

One public lecture on *William Harvey*.

Professor GEORGE W. RITCHEY, of Pasadena, Cal.

One public lecture on *Recent Celestial Photography with the Sixty-inch Reflecting Telescope of the Mt. Wilson Solar Observatory*.

Professor PAUL SHOREY, PH. D., of the University of Chicago.

One public lecture on *Athens fin de Siècle*.

ERNST LUDWIG FREIHERR VON WOLZOGEN, Novelist and Dramatist.

One public lecture on *Das deutsche Theater der Gegenwart*.

Before the following Departments of Instruction

Geology

Professor CLEVELAND ABBE, PH. D., LL. D., of the U. S. Weather Bureau.
Meteorology.

LOUIS A. BAUER, PH. D., Director of the Department of Terrestrial Magnetism, Carnegie Institution.
Terrestrial Magnetism.

Greek

ARISTOGEITON M. SOHO, PH. D., of Baltimore.
Modern Greek.

Historical, Economic, and Political Science

LOGAN G. MCPHERSON, Esq., of New York.
Railway Transportation.

JAMES BROWN SCOTT, J. U. D., Solicitor for the Dept. of State, Washington.
Principles of International Law.

Medicine

CH. WARDELL STILES, PH. D., Zoologist of the U. S. Bureau of Public Health.
Medical Zoology.

Romance Languages

Professor IRVING H. BABBITT, of Harvard University.
Sainte-Beuve's Theory of the Master Faculty.

Professor GORDON H. GEROULD, of Princeton University.
"Some Inter-relations between France and England about the Time of the Conquest."

Professor BASIL L. GILDERSLEEVE.
Aristophanes and Chantecler.

Professor P. F. GIROUD, of Girard College, Philadelphia.
La Comédie en France au XVIIIe Siècle. [Alliance Française Lecturer.]

Professor CHARLES H. GRANDGENT, of Harvard University.
The Ingredients of the "Divine Comedy."

Professor GUSTAVE MICHAUT, of the University of Paris.
Le Misanthrope.

Professor WILLIAM A. NITZE, PH. D., of the University of Chicago.
The Work of Chrétien de Troyes: Problems of Origin and Technique.

Professor FREDERICK M. WARREN, PH. D., of Yale University.
The Romance Lyric from the Standpoint of Mediaeval Latin Documents.

HOLDERS OF THE JOHNSTON SCHOLARSHIPS

ROBERT LEE RAMSAY, PH. D., *James Buchanan Johnston Scholar.*

A. B., Fredericksburg College, 1899; Fellow, Johns Hopkins University, 1904-05, Ph. D., 1905, and Assistant in English, 1905-07; Instructor, University of Missouri, 1907-09. *English.*

Denmore Park.

EBENEZER EMMET REID, PH. D., *Henry E. Johnston Jr. Scholar.*

A. M., Richmond College, 1894; Fellow, Johns Hopkins University, 1897-98, and Ph. D., 1898; Professor of Chemistry, Charleston College, 1898-01, and Baylor University 1901-08. *Chemistry.*

257 W. Hoffman St.

JOSEPH THEOPHILUS SINGEWALD, JR., PH. D., *Henry E. Johnston Scholar.*

318 S. Broadway.

A. B., Johns Hopkins University, 1906, Fellow, 1907-08, and Ph. D., 1909. *Geology.*

GRADUATE STUDENTS

FELLOWS BY COURTESY

ANNIE HELOISE ABEL. Baltimore. *Goucher College.*

A. B., Kansas State University, 1898, and A. M., 1900; Fellow, Yale University, 1903-05, and Ph. D., 1905; Associate Professor of History, Goucher College. *Germanic Philology.*

CLARA LATIMER BACON. Baltimore. 2316 *N. Calvert St.*

A. B., Wellesley College, 1890; A. M., University of Chicago, 1904; Associate Professor of Mathematics, Goucher College. *Mathematics, Education, and Philosophy.*

LEONARD A. BLUE. Baltimore. *Goucher College.*

Ph. B., Cornell University, 1892, and Ph. M., 1893; Fellow, University of Pennsylvania, 1900-01, and Ph. D., 1902; Professor of Education, Goucher College. *Education.*

JAMES RYALS CONNER. Cartersville, Ga. 1627 *McCulloh St.*

A. B., University of Georgia, 1898; Fellow, Johns Hopkins University, 1907-09, and Ph. D., 1909. *Mathematics.*

GEORGE STEWART DUNCAN. Washington, D. C. 2900 *7th St. N. E.*

A. B., Williams College, 1885; A. M., Princeton University, 1887; B. D., Princeton Theological Seminary, 1888, and Semitic Fellow, 1888-89; Ph. D., Dickinson College, 1894. *Semitic Languages.*

JULIA ANNA GARDNER. Chamberlain, S. D. 821 *N. Charles St.*

A. B., Bryn Mawr College, 1905, and A. M., 1907; Fellow, Johns Hopkins University, 1908-09. *Geology, Mineralogy, and Biology.*

FRANCIS JOSEPH HEMELT. Baltimore. 403 *S. Washington St.*

A. B., Loyola College, 1906; Fellow, Johns Hopkins University, 1908-10. *English, French, and Germanic Philology.*

HENRY HALLOCK HOSFORD. Crete, Neb. 1115 *Linden Av.*

A. B., Western Reserve University, 1880, and A. M., 1883; Professor of Chemistry, Doane College. *Chemistry, Physical Chemistry, and Physics.*

EDMUND BURKE HUEY. Lincoln, Ill.

A. B., Lafayette College, 1895, and A. M., 1898; Fellow, Clark University, 1898-99, and Ph. D., 1899. *Psychology and Education.*

HENRY ROYER KREIDER. Baltimore. 312 *E. 23d St.*

A. B. and A. M., Franklin and Marshall College, 1898; Ph. D., Johns Hopkins University, 1910; Professor of Chemistry, Baltimore Medical College. *Chemistry.*

ANDREW HOFFMAN KRUG. Baltimore. 838 *E. Preston St.*

A. B., St. John's College, 1901; Fellow, Johns Hopkins University, 1908, and Ph. D., 1910. *English, French, and Philosophy.*

CHESTER NEWTON MYERS. Valley Falls, N.Y. 1203 *Madison Av.*

A. B., Williams College, 1906; Ph. D., Johns Hopkins University, 1910. *Chemistry.*

ARTHUR MCCAY PARDEE. Tarkio, Mo. 1731 *N. Broadway.*

A. B., Washington and Jefferson College, 1907; Professor of Chemistry, Tarkio College. *Chemistry.*

LOUIS ALEXANDER PARSONS. Gettysburg, Pa.

A. B., Iowa State University, 1895; Fellow, Johns Hopkins University, 1900-02, and Ph. D., 1902; Professor of Physics, Pennsylvania College. *Physics.*

WYLLYS REDE. Baltimore. 103 *W. Twentieth St.*

A. B., Williams College, 1882; General Theological Seminary (N. Y.); D. D., St. John's College (Md.). *History and Education.*

HENRY CLARENCE ROBERTSON, JR. Spartanburg, S.C., 1204 *Bolton St.*

A. B., Wofford College, 1905, and A. M., 1906; Ph. D., Johns Hopkins University, 1910. *Chemistry.*

FRANK TENNEY STOCKTON. Meadville, Pa. 2915 *W. North Av.*

A. B., Allegheny College, 1907; Fellow, Johns Hopkins University, 1909-10. *Political Economy, Political Science, and History.*

HERMAN IVAH THOMSEN. Baltimore. 1928 *Mt. Royal Terr.*

A. B., Harvard University, 1881; Ph. D., Johns Hopkins University, 1909. *Mathematics.*

GRACE SARA WILLIAMS. Baltimore. *Goucher College.*

A. B., Knox College, 1897; Ph. D., Columbia University, 1907; Associate Professor of Romanic Languages, Goucher College. *Romance Languages.*

(19)

ADAM T. BRUCE FELLOW IN BIOLOGY

WILLIAM HENRY BROWN. Richmond, Va.

S. B., Richmond College, 1906; Fellow, Johns Hopkins University, 1909-10, and Ph. D., 1910. *Botany.* [Resigned November 15, 1910.]

UNIVERSITY FELLOWS

HENRY GRAY BARBOUR. Hartford, Conn. 1734 *St. Paul St.*

A. B., Trinity College, 1906; M. D., Johns Hopkins University, 1910. *Pathology.*

SAMUEL CLAGGETT CHEW, JR. Baltimore County. *Roland Park.*

A. B., Johns Hopkins University, 1910. *English and French.*

WILLIAM SHERWOOD FOX. Brandon, Manitoba. 903 *N. Fulton Av.*

A. B., McMaster University, 1900, and A. M., 1906; Professor of Greek and Latin, Brandon College. *Classical Archaeology, Greek, and Latin.*

WILLIAM STUART GORTON. Baltimore. 2403 *Garrison Av.*

A. B., Johns Hopkins University, 1908, and A. M., 1910. *Physics, Applied Electricity, and Mathematics.*

CLARENCE PEMBROKE GOULD. Baltimore. 508 *E. 23d St.*

A. B., Johns Hopkins University, 1907. *History, Political Economy, and Political Science.*

GUSTAV GRÜNBAUM. Bucarest, Roumania. 2028 *McCulloh St.*

A. B., University of Bucarest, 1902. *Italian, French, and Spanish.*

J. SAM GUY. Fredericksburg, Va. 321 *W. Hoffman St.*

S. B., Davidson College, 1905, and A. M., 1906. *Chemistry, Physical Chemistry, and Mineralogy.*

ERNEST LESLIE HIGHBARGER. Rockford, Ill. 1719 *McCulloh St.*

A. B., Mt. Morris College, 1908. *Greek.*

SARAH FENTON HOYT. New York, N. Y. 1112 *Bolton St.*

A. B., Barnard College (Columbia University), 1905; B. D., Union Theological Seminary (N. Y.), 1908. *Semitic Languages.*

NATHANIEL EDWARD LOOMIS. Randolph, Wis. 261 *W. Hoffman St.*

S. B., Beloit College, 1908; M. S., Syracuse University, 1909. *Chemistry, Physical Chemistry, and Geology.*

FRANK ABBOTT MAGRUDER. Woodstock, Va. 321 *W. Hoffman St.*

A. B., Washington and Lee University, 1905. *Political Science, Political Economy, and History.*

JOSEPH LLEWELLYN MCGHEE. Emory, Va. 927 *McCulloh St.*

A. B., Emory and Henry College, 1903. *Chemistry, Physical Chemistry, and Applied Electricity.*

JOHN BEAVER MERTIE, JR. Raton, N. Mexico. 261 *W. Hoffman St.*

A. B., Johns Hopkins University, 1908. *Geology and Physical Chemistry.*

CHARLES FERDINAND MEYER. Baltimore County.

A. B., Johns Hopkins University, 1906. *Physics, Physical Chemistry, and Mathematics.* 211 *Goodwood Gardens, Roland Pk.*

HARRY HESS REICHARD. Hellertown, Pa. 2514 *Madison Av.*

A. B., Lafayette College, 1901. *German, Latin, and Greek.*

C. F. CURTIS RILEY. Mankato, Minn.

A. B., Doane College, 1901, and University of Michigan, 1904. *Zoology.* [Resigned without entering on the fellowship.]

THOMAS DECOURSEY RUTH. Baltimore County. *Roland Park.*

A. B., Johns Hopkins University, 1906. *Latin, Greek, and Sanskrit.*

JOSHUA IRVING TRACEY. Upperco. 1741 *McCulloh St.*

S. B., Dickinson College, 1906. *Mathematics, Physics, and Astronomy.*

JOHN LINCK ULRICH. Baltimore. 841 *Hamilton Terr.*

S. B., University of Pennsylvania, 1908, and M. S., 1909. *Psychology.*

FRENCH EUGENE WOLFE. Topeka, Kan. 1325 *Polk St.*

A. B., Emory and Henry College, 1907. *Political Economy, Political Science, and History of Philosophy.*

HARLAN HARVEY YORK. Plainfield, Ind. 869 *Harlem Av.*

Sc. B., De Pauw University, 1903; Fellow, Ohio State University, 1903-04, and A. M., 1905; Fellow, Columbia University, 1905-06; Assistant in Botany, Johns Hopkins University, 1909-10. *Botany, Plant Physiology, and Zoology.*

(21)

OTHER GRADUATE STUDENTS IN PHILOSOPHY

PAUL GOUGH AGNEW. Washington, D. C. *Washington.*

B. L. Hillsdale College, 1901; A. M., University of Michigan, 1902. *Physics, Applied Electricity, and Mathematics.*

FRED ALLISON. Glade Springs, Va. 228 *W. Lanvale St.*

A. B., Emory and Henry College, 1904. *Physics and Astronomy.*

REV. ROBERT WELLS ANDREWS. Akita, Japan. 1426 *Linden Av.*

A. B., University of London, 1891. *Philosophy.*

THOMAS BRYCE ASHCRAFT. Marshville, N. C. 1201 *McCulloh St.*

A. B., Wake Forest College, 1906. *Mathematics, Physics, and Astronomy.*

ROBERT PAUL ASHLEY. Baltimore. 1412 *Eutaw Place.*
A. B., Washington and Lee University, 1910. *English, French, and German.*

SAMUEL WARREN AYRES. Knoxville, Tenn. 261 *W. Hoffman St.*
A. B., University of Tennessee, 1906, and A. M., 1908. *Latin, Greek, and Sanskrit.*

HARVEY BASSLER. Myerstown, Pa. 1421 *McCulloh St.*
B. E., Albright College, 1903, and M. S., 1909; E. M., Lehigh University, 1908. *Geology and Physical Chemistry.*

RAYMOND BINFORD. Guilford College, N. C. 249 *W. Hoffman St.*
S. B., Earlham College, 1901; M. S., University of Chicago, 1906. *Zoology.*

RALPH ROTHERY BOUTON. St. Louis, Mo. 3219 *Windsor Av.*
S. B., Washington University, 1910. *Chemistry, Physical Chemistry, and Physics.*

THOMAS ROSS BROWN. Frankfort, Ind. 716 *Park Av.*
A. B., University of Michigan, 1902. *Bacteriology, Physiological Chemistry, and Pathology.*

MARY CACY BURCHINAL. Chestertown. 2030 *N. Calvert St.*
A. B., Washington College, 1896, and A. M., 1899. *Germanic Philology, German, and French.*

GRANVILLE BURRUSS. Ruther Glen, Va. 1115 *Linden Av.*
L. I., William and Mary College, 1895; A. B., Randolph-Macon College, 1904, and A. M., 1906. *Semitic Languages.*

JOHN LATTIMORE CARPENTER. Brooksville, Miss. 1719 *McCulloh St.*
S. B., Mississippi College, 1904, and A. M., 1905. *Chemistry, Physical Chemistry, and Mineralogy.*

GENTRY CASH. Emory, Va.
A. B., Emory and Henry College, 1907. *Chemistry, Physical Chemistry, and Mineralogy.*

LOTTA A. CASLER. Little Falls, N. Y. 19 *W. Chase St.*
A. B., Smith College, 1896. *Latin, Classical Archaeology, and English.*

LYTTLETON MORGAN CHAMBERS. Baltimore. 1322 *W. Lexington St.*
A. B., Johns Hopkins University, 1900. *Philosophy.*

JOSEPH CHANDLER. Livermore Falls, Me. 1124 *McCulloh St.*
A. B., Colby College, 1909. *Chemistry, Physical Chemistry, and Mineralogy.*

BURTON WILLIAM CLARK. Utica, N. Y. 1305 *Bolton St.*
S. B., Syracuse University, 1907, and M. S., 1908. *Geology, Mineralogy, and Chemistry.*

NILS Y. CLAUSON. Red Wing, Minn. 1318 *Bolton St.*
A. B., Luther College, 1901. *French, Latin, and Italian.*

ALGERNON COLEMAN. News Ferry, Va. 1124 *McCulloh St.*
A. B. and A. M., University of Virginia, 1901. *Romance Languages.*

CHARLES WYTHE COOKE. Front Royal, Va. 1309 *John St.*
A. B., Johns Hopkins University, 1908. *Geology.*

PAUL BELL DAVIS. Salem, Va. 909 *McCulloh St.*
A. B., Roanoke College, 1908, and A. M., 1909. *Chemistry, Physical Chemistry, and Mineralogy.*

FELTON SAMUEL DENGLER. Steelton, Pa. 1504 *McCulloh St.*
S. B., Pennsylvania College, 1909. *Chemistry, Physical Chemistry, and Physics.*

THOMAS WYATT DICKSON. Raeford, N. C. 515 *W. Mulberry St.*
A. B., University of North Carolina, 1907, and A. M., 1909. *Greek, Latin, and Sanskrit.*

JOHN LEVI DONALDSON. Berwyn. 1318 *Bolton St.*
S. B., Maryland Agricultural College, 1910. *Political Science, English, and History.*

ALBERT CASSELL DUDLEY. Baltimore County. *Relay.*
Princeton Theological Seminary, 1907. *History.*

THOMAS SHEARER DUNCAN. Westport, Ont. 1121 *McCulloh St.*
A. M., Queen's University (Ont.), 1904. *Latin, Greek, and Classical Archaeology.*

ALPHAEUS WILLIAM DUPLER. Huntingdon, Pa.
A. B., Juniata College, 1911. *Botany and Zoology.*

EDWIN WALTER ESSLINGER. Danville, Ill. 1312 *Linden Av.*
Ph. G., Purdue University, 1903; B. S., University of Michigan, 1907. *Chemistry, Physical Chemistry, and Bacteriology.*

LULU KATHERINE EUBANK. Baltimore. 3018 *Westwood Av.*
A. B., Woman's College (Richmond, Va.), 1884, and A. M., 1885. *History, Political Science, and Economics.*

HENRY OTTO EYSSELL. Kansas City, Mo. 1504 *McCulloh St.*
A. B., University of Missouri, 1908. *Chemistry and Physical Chemistry.*

PERCIVAL BRADSHAW FAY. Washington, D. C. 16 *W. Hamilton St.*
A. B., Haverford College, 1909. *French, Spanish, and Italian.*

CHARLES GHEQUIERE FENWICK. Baltimore. 118 *W. Lanvale St.*
A. B., Loyola College, 1908, and A. M., 1909; Woodstock College, 1900-03. *Political Science, History, and Philosophy.*

GEORGE CLYDE FISHER De Funiak Springs, Fla. 1007 *Myrtle Av.*
A. B., Miami University, 1905. *Botany, Zoology, and Plant Physiology.*

THEODORE THORNBUR FITCH. Washington, D. C. 1312 *Linden Av.*
B. C. E., Iowa State College, 1903. *Physics, Mathematics, and Applied Electricity.*

PERCY SCOTT FLIPPIN. Lynchburg, Va. 321 *W. Hoffman St.*
A. B., Richmond College, 1906. *History.*

ALEXANDER DAVID FRASER. Pictou, Nova Scotia. 1719 *McCulloh St.*
A. B., Dalhousie University, 1910. *Classical Archaeology, Greek, and Latin.*

JOEL RUSSELL GAAR. Baltimore. 3204 *E. Baltimore St.*
A. B., Westminster College (Texas), 1901; B. D., Westminster Theological Seminary (Md.), 1904. *Philosophy, Psychology, and Biology.*

HARRY CLINTON GOSSARD. Gibsonburg, O. 1213 *McCulloh St.*
S. B., Ohio Northern University, 1907. *Mathematics.*

ARTHUR HAMILTON. Fort Wayne, Ind. 1312 *Park Av.*
A. B., Harvard University, 1907; A. M., University of Michigan, 1910. *Romance Languages.*

CORNELIA G. HARCUM. Reedville, Va. *Goucher College.*

A. B., Goucher College, 1907, and Fellow, 1910-11. *Latin and Classical Archaeology.*

JULIA PEACHY HARRISON. Richmond, Va. 1316 *Bolton St.*

A. B., Richmond College, 1906, A. M., 1907, and S. B., 1909. *Chemistry, Physical Chemistry, and Physics.*

LON A. HAWKINS. Washington, D. C. *Washington.*

Sc. B., Morningside College (Iowa), 1906. *Botany and Chemistry.*

JOHN WILLARD HERSHEY. Gettysburg, Pa. 906 *McCulloh St.*

S. B., Pennsylvania College, 1907, and M. S., 1910. *Chemistry and Physical Chemistry.*

CLARENCE WILSON HEWLETT. Wilson, N. C. 2101 *N. Calvert St.*

B. E., North Carolina Agricultural and Mechanical College, 1906. *Physics, Physical Chemistry, and Mathematics.*

HENRY HINDLE. Ridgebury, N.Y. 1741 *McCulloh St.*

A. B., Boston University, 1899, and S. T. B., 1902. *Spanish, French, and Italian.*

ARTHUR DUNHAM HOLMES. Westminster, Vt. 261 *W. Hoffman St.*

S. B., Dartmouth College, 1906. *Chemistry, Physical Chemistry, and Mineralogy.*

FRANK GLEN HOLMES. Baltimore. 1629 *W. Mulberry St.*

A. B., Johns Hopkins University, 1908. *History and Philosophy.*

JOHN MALLORY HOLMES. Baltimore. 1714 *McCulloh St.*

A. B., Johns Hopkins University, 1910. *Philosophy.*

OLIVER BAKER HOPKINS. Penn Laird, Va. 232 *Laurens St.*

A. B., Johns Hopkins University, 1909. *Geology and Physical Chemistry.*

MARIE HOURWICH. Washington, D. C. 1104 *McCulloh St.*

Nijni-Novgorod Gymnasium (Russia), 1905; Rand School of Social Science (New York), 1907-1909. *Political Economy, History, Political Science.*

JANET TUCKER HOWELL. Baltimore. 232 *W. Lanvale St.*

A. B., Bryn Mawr College, 1910. *Physics, Mathematics, and Astronomy.*

JOHN FREDERICK HUNTER. Baltimore. *Bay View Asylum.*

A. B., Johns Hopkins University, 1907. *Geology and Physical Chemistry.*

WARREN BELKNAP HUNTING. Baltimore. 34 *W. 25th St.*

A. B., Johns Hopkins University, 1907; LL. B., University of Maryland, 1909. *Political Science, Law, and History.*

GEORGE MILTON JANES. Burlington, Mass. 314 *Augusta Av.*

A. B., Middlebury College, 1903; B. Litt., Dartmouth College, 1901; S. T. B., Harvard University, 1902, and A. M., 1910. *Political Economy, Political Science, and History.*

HARRY MILES JOHNSON. Nelson, Mo. 261 *W. Hoffman St.*

A. B., Missouri Valley College, 1909. *Psychology, Physiology, and Philosophy.*

WALTER VINCENT JOHNSON. Baltimore. 2015 *St. Paul St.*

A. B., Johns Hopkins University, 1909. *History.*

WILLIAM RALPH JONES. Baltimore. 520 *N. Arlington Av.*

A. B., Johns Hopkins University, 1906. *Botany, Plant Physiology, and Zoology.*

CALEB GUYER KELLY. Baltimore. 2010 *Linden Av.*
A. B., Johns Hopkins University, 1908. *History, Pol. Science, Philosophy.*

VERNON K. KRIEBLE. Lansdale, Pa. 239 *W. Lanvale St.*
Ph. B., Brown University, 1907; M. Sc., McGill University, 1909. *Chemistry, Physical Chemistry, and Mineralogy.*

HERBERT A. LUBS. Savannah, Ga. 227 *W. Monument St.*
A. B., Newberry College, 1910. *Chemistry and Physical Chemistry.*

ELMER J. LUND. Olivia, Minn. 216 *W. Lanvale St.*
Ph. B., Hamline University, 1910. *Botany, Physiology, and Zoology.*

DONALD MACKENZIE. Baltimore. 804 *N. Calvert St.*
A. B., Johns Hopkins University, 1908. *Physics, Applied Electricity, and Mathematics.*

JOHN ALOYSIUS MAHAR. Rensselaer, N. Y. 1731 *Linden Av.*
Ph. B., Union College, 1904; Ped. B., State Normal College (Albany), 1906. *Romance Languages.*

WILLIS EDGAR MANEVAL. Baltimore. 1613 *Edmondson Av.*
Ph. B., Bucknell University, 1902, and M. S., 1903. *Zoology, Botany, and Geology.*

ELI KENNERLY MARSHALL, JR. Charleston, S. C. 321 *W. Hoffman St.*
S. B., College of Charleston, 1908. *Chemistry, Physical Chemistry, and Physics.*

JAMES LUTHER MARTIN. Baltimore. 3200 *E. Lombard St.*
Virginia Theological Seminary, 1904; A. B., George Washington University, 1909. *History, Philosophy, and Political Economy.*

CLEMENT ORESTES MEREDITH. Guilford College, N. C.
A. B., Guilford College, 1900, and Haverford College, 1901. *Latin, French, and Spanish.* 249 *W. Hoffman St.*

AUSTIN RALPH MIDDLETON. Baltimore. 334 *Elm Av., Hampden.*
A. B., Johns Hopkins University, 1910. *Zoology and Botany.*

BESSIE IRVING MILLER. Baltimore. 108 *E. North Av.*
A. B., Woman's College of Baltimore, 1907. *Mathematics, Astronomy, and Classical Archaeology.*

GEORGE WARREN MORRIS. Monroe, Va. 249 *W. Hoffman St.*
A. B., Washington and Lee University, 1905. *Latin and English.*

ALFRED BALCH MORTON. Baltimore County. *Roland Park.*
A. B., Haverford College, 1907. *Political Economy, Political Science, and History.*

THOMAS ADDIS EMMET MOSELEY. Baltimore. 614 *N. Howard St.*
A. B., Johns Hopkins University, 1907. *Italian, French and Latin.*

ALBERT OSWALD MULLEN. Baltimore. 207 *E. Lafayette Av.*
A. B., Pennsylvania College, 1891; Gettysburg Theological Seminary, 1894. *Political Economy.*

WALTER EMIL MYERS. Baltimore. 1421 *W. Franklin St.*
A. B., Johns Hopkins University, 1907. *French and Italian.*

PATRICK JOSEPH NICHOLSON. North Sydney, Nova Scotia.
A. B., St. Francis Xaviers' College (N. S.), 1909. *Physics, Mathematics and Astronomy.* 1209 *Guilford Av.*

MIRIAM BRITTINGHAM NOCK. Accomac, Va. 711 *St. Paul St.*

A. B., Randolph-Macon Woman's College, 1910. *Mathematics, History, and Chemistry.*

JOHN WILLIAM NOWELL. Tyner, N. C. 321 *W. Hoffman St.*

A. B., Wake Forest College, 1903, and A. M., 1907. *Chemistry, Physical Chemistry, and Mineralogy.*

OSCAR LEE OWENS. Baltimore. 2113 *7th St., Walbrook.*

A. B., Richmond College, 1898; B. D., Rochester Theological Seminary, 1901; A. M., George Washington University, 1907. *English, History, and Political Economy.*

LUTHER WOOD PARKER. Elizabeth City, N. C. 261 *W. Hoffman St.*

A. B., University of North Carolina, 1907, and A. M., 1908. *French, Spanish, and Italian.*

HERBERT PARRISH. Baltimore. 222 *N. Carrollton Av.*

A. B., Trinity College (Conn.), 1891, and A. M., 1894; General Theological Seminary (N. Y.), 1894. *History.*

JAMES FREDERICK PEAKE. Braddock Heights, Va. *Washington.*

A. B., Randolph-Macon College, 1902; A. M., George Washington University, 1904. *History.*

WILLIAM EDWARD PEARCE, JR. Baltimore. 1065 *Myrtle Av.*

A. B., Johns Hopkins University, 1909. *Latin, Greek, and Sanskrit.*

GEORGE GOSE PEERY. Salem, Va. 220 *W. Lanvale St.*

A. B., Roanoke College, 1905, and A. M., 1907. *Biology.*

SARA ALICE PORTER. Emsworth, Pa. *Goucher College.*

A. B., Goucher College, 1910, and Fellow, 1910-11. *German and Philosophy.*

WILLIAM ARMSTRONG PRICE, JR. Richmond, Va. 220 *W. Monument St.*

A. B., Davidson College, 1909. *Geology, Mineralogy, and Chemistry.*

WILLIAM ANDREW AUGUST REINHARDT. Baltimore. 1337 *Hull St.*

A. B., Johns Hopkins University, 1907. *Chemistry, Physical Chemistry, and Geology.*

ORESTES PEARLE RHYNE. Gastonia, N. C. 906 *McCulloh St.*

A. B., Lenoir College, 1907; A. B., University of North Carolina, 1908, and A. M., 1909. *German and English.*

LAWRENCE MELVILLE RIDDLE. Baltimore Co.

A. B., Johns Hopkins University, 1908. *French.* *Evesham Av., Govans.*

LEWIS BAYARD ROBINSON, JR. Baltimore. 306 *E. 22nd St.*

A. B., Johns Hopkins University, 1906. *Mathematics, Political Economy, and Astronomy.*

GILBERT WHITE ROSENTHAL. Baltimore. 815 *Newington Av.*

A. B., Johns Hopkins University, 1910. *Biology and Chemistry.*

JOHN HENDERSON RUSSELL. Jonesville, Va. 1214 *Madison Av.*

A. B., Emory and Henry College, 1907. *History, Political Science, and History of Philosophy.*

GEORGE VICTOR SCHICK. Fort Wayne, Ind. 1318 *Bolton St.*

Concordia College, 1904; Concordia Seminary (St. Louis), 1907; Fellow, Johns Hopkins University, 1908-10. *Hebrew, Assyrian, and Greek.*

PHILIP SCHNEEBERGER. Baltimore. 2014 *McCulloh St.*
A. B., Johns Hopkins University, 1909. *Chemistry, Physical Chemistry, and Geology.*

EDWARD JOHN SHAEFFER. Ballston Spa, N. Y.
Ph. B., Brown University, 1910. *Chemistry and Physical Chemistry.*
1655 *W. North Av.*

WALTER FRANCIS SHENTON. Pottstown, Pa. 1914 *Linden Av.*
Sc. B., Dickinson College, 1907, and A. M., 1909. *Mathematics and Physics.*

JACOB SINGER. York, Pa. *York.*
A. B., University of Cincinnati, 1907, and A. M., 1908; Rabbi, Hebrew Union College, 1909. *Philosophy, Hebrew, and Education.*

HORATIO ELWIN SMITH. Brattleboro, Vt.
A. B., Amherst College, 1908. *French, Spanish, and Italian.*
116 *Ridgewood Rd., Roland Pk.*

LESLIE DENIS SMITH. Beloit, Wis. 1203 *Madison Av.*
S. B., Beloit College, 1910. *Chemistry and Physical Chemistry.*

WILLIAM EUGENE SPEAS East Bend, N. C. 1429 *McCulloh St.*
A. B., Wake Forest College, 1907. *Physics and Mathematics.*

ALFRED SPRINGER, JR. Norwood, O. 1109 *Madison Av.*
A. B., Yale University, 1909. *Chemistry and Physical Chemistry.*

RUTH JENNINGS STOCKING. Flushing, O. 1 *W. 27th St.*
A. B., Goucher College, 1910. *Zoology and Botany.*

GEORGE HAMILTON SWIFT. Baltimore. 1325 *Madison Av.*
A. B., Northwestern University, 1910. *History.*

CHARLES L. SYRON. McDowell, Va. 249 *W. Hoffman St.*
A. B., Washington and Lee University, 1908. *Chemistry and Physical Chemistry.*

ARTHUR PERCIVAL TANBERG. Baltimore. 2740 *Parkwood Av.*
A. B., Swathmore College, 1910. *Chemistry and Physical Chemistry.*

LLOYD VAN DOREN. New Germantown, N. J. 1504 *McCulloh St.*
S. B., Pennsylvania College, 1909. *Chemistry, Physical Chemistry, and Physics.*

BENJAMIN FRANKLIN WALLIS. Baltimore. 604 *W. North Av.*
A. B., Johns Hopkins University, 1910. *Geology and Physical Chemistry.*

LUTHER EWING WEAR. Houston, Texas. 1318 *Bolton St.*
A. B., Cumberland University, 1902, and LL. B., 1903. *Mathematics.*

ROBERT ALEXANDER WEBB, JR. Louisville, Ky. 1416 *McCulloh St.*
A. B., Southwestern Presbyterian University, 1910. *Greek, Latin, and Philosophy.*

GEORGE ROSS MAURICE WELLS. Baltimore County. *Towson.*
A. B., McMaster University, 1906; Newton Theological Institute, 1906-08; A. M., Harvard University, 1909. *Psychology and Philosophy.*

NATHANIEL RUGGLES WHITNEY. Lykens, Pa. 2608 *Maryland Av.*
A. B., Pennsylvania College, 1906. *Political Economy and Political Science.*

FRANCIS FORTESCUE WHITTLE. Petersburg, Va. 918 *St. Paul St.*
A. B., University of Virginia, 1910. *Biology, Chemistry, and Physics.*

EDWARD HYATT WIGHT. Baltimore County. *Garrison.*
S. B., Princeton University, 1910. *Chemistry.*

EUGENE PINCKNEY WIGHTMAN. Ashland, Va. 261 *W. Hoffman St.*
S. B., Richmond College, 1908. *Chemistry, Physical Chemistry, and Mineralogy.*

RICHARD CLAGGETT WILLIAMS. Baltimore. 204 *E. Preston St.*
A. B., Princeton University, 1900. *Geology, Mineralogy, and Physical Chemistry.*

ROY MARTIN WINGER. McCune, Kans. 1318 *Bolton St.*
A. B., Baker University, 1906. *Mathematics, Astronomy, and Sanskrit.*

LULA GAINES WINSTON. Richmond, Va. 257 *W. Hoffman St.*
S. B., Richmond College, 1899. *Chemistry, Physical Chemistry, and Applied Electricity.*

GEORGE ELIAS WISEWELL. Phelps, N. Y. 1608 *Ruskin Av.*
Ph. B., Hamilton College, 1904, *French, Spanish, and Italian.*

F. SIMON WOO. Chang Chow, China. 249 *W. Hoffman St.*
A. B., St. John's University (Shanghai), 1910. *Biology, Chemistry, and Physics.*

TOMIKICHI YOKOYAMA. Shimoda, Japan. 416 *W. Hoffman St.*
Ph. B., Kansas City University, 1909; B. D., Westminster Theological Seminary (Md.), 1910. *Political Science, Political Economy, and Philosophy.*

JOHN BROWN ZINN. Gettysburg, Pa. 1203 *Madison Av.*
S. B., Pennsylvania College, 1909. *Chemistry and Physical Chemistry.*

ATTENDANTS ON SINGLE COURSES

ALBERT LEROY AYLMER. Baltimore. 3649 *Park Heights Av.*
A. B., University of Minnesota, 1908. *Political Science.*

ROSA BALDWIN. Baltimore. 1615 *Linden Av.*
A. B., Goucher College, 1896. *Classical Archaeology.*

LEWIN WETHERED BARROLL. Chestertown. 807 *St. Paul St.*
A. B., Washington College, 1908, and Litt. B., 1910; A. B., Yale University, 1910. *Political Science.*

HARRY LINGAN CAPLES. Baltimore County. *Cockeysville.*
A. B., Johns Hopkins University, 1908. *History.*

EDWIN THOMAS CHEETHAM. Baltimore. 319 *W. Hoffman St.*
A. B., Wooster University, 1897. *Political Economy.*

ELSIE GETZENDANNER CLARK. Baltimore. 2227 *St. Paul St.*
A. B., Goucher College, 1909. *English.*

KLARA HECHTENBERG COLLITZ. Baltimore. 135 *W. Mt. Royal Av.*
University of Oxford, 1895; Ph. D., University of Heidelberg, 1900. *Germanics.*

MARY THERESA DALLAM. Baltimore. 1318 *Bolton St.*
University of Chicago and Harvard University (Summer Schools). *English.*

ALICE JOUVEAU DUBREUIL. Baltimore. 2315 *N. Charles St.*
A. B., Cornell University, 1906. *English.*

BENJAMIN EDWARD FLEAGLE. Baltimore Co. *Colonial Park.*
A. B., Western Maryland College, 1904. *Educational Psychology.*

ARTHUR CARY FLESHMAN. Baltimore.
A. M., Columbian University, 1903; Ph. D., New York University, 1910. *Education.*

REV. PAUL FOX. Baltimore. 516 *N. Luzerne St.*
A. B., Western Reserve University, 1906, and A. M., 1908; D. B., Oberlin College, 1907. *History.*

CHARLES FREDERICK GLOTH. Baltimore. 605 *St. Paul St.*
A. B., Yale University, 1897. *Romance Languages.*

REV. FRANCISCO GUGLIELMI. Baltimore 322 *S. High St.*
Gregorian University, Rome, Italy. *Philosophy.*

HENRIETTA HAGERTY. Baltimore. *The Severn.*
A. B., Vassar College, 1904. *English.*

EVAN DONOVAN HANS. Baltimore. 2123 *Linden Av.*
LL. B., University of Maryland, 1907. *Political Science.*

MARY BELLE HARRIS. Lewisburg, Pa. 821 *N. Charles St.*
A. B., Bucknell University, 1894, and A. M., 1895; Ph. D., University of Chicago, 1900. *Classical Archaeology.*

MARY ELLA HARRISON. Baltimore. 1025 *Madison Av.*
Ph. B., University of Chicago, 1910. *Classical Archaeology.*

ANABEL EUGENIA HARTMAN. Baltimore. 914 *N. Carrollton Av.*
A. B., Goucher College, 1908. *English.*

KATHERINE HOBACH. Baltimore. 2419 *N. Calvert St.*
A. B., Goucher College, 1898. *Astronomy.*

MILDRED ALBRO HOGE. Baltimore. 1006 *W. Lanvale St.*
A. B., Goucher College, 1908. *Biology.*

JOHN HULL HOSTETTER. Colo, Iowa. 1034 *N. Broadway.*
M. D., Northwestern University, 1910. *Chemistry.*

EDWIN BROWN KELLY. Baltimore. 507 *W. Mulberry St.*
A. B., Loyola College, 1910. *Biology.*

EDWARD K. LEE. Harford County. *Perryman.*
A. B., Loyola College, 1910. *Biology.*

EMMA GRACE LOTZ. Baltimore. 2129 *16th St., Walbrook.*
Phar. D., University of Maryland, 1906. *Chemistry.*

R. CLYDE MCKEE. Baltimore. 1605 *John St.*
LL. B., Baltimore Law School, 1909. *Political Science.*

HERBERT HAYES MURPHY. Baltimore County. *Glyndon.*
A. B., Western Maryland College, 1897, and A. M., 1905. *Education.*

JAMES STANISLAUS MURPHY. Baltimore.
A. B., Loyola College, 1909; Student of Law, University of Maryland. *Political Science.* *Presstman and 8th Sts., Walbrook.*

ISAAC LEWIS OTIS. Howard County. *Jessups.*
A. B., New York University, 1899. *Education.*

ROBERT MILTON OVERBECK. Baltimore County. *Govans.*
A. B., Johns Hopkins Univrsity, 1909. *Romance Languages.*

JAMES HERBERT OWENS. Harford County. *Havre de Grace.*
A. B., Randolph-Macon College, 1904. *Educational Psychology.*

PETER PECK. Baltimore, 1714 *McCulloh St.*
A. B., Johns Hopkins University, 1908. *Political Science.*

LEGRAND WINFIELD PERCE, JR. Baltimore. 1015 *Madison Av.*
A. B., Johns Hopkins University, 1907; LL. B., University of Maryland, 1909. *Political Science.*

REV. CLARENCE HOLTON POAGE. Baltimore. 3038 *Baker St.*
A. B., Kentuckey University, 1894; A. M., Transylvania University, 1909. *English.*

HARRY PRIMROSE PORTER. Harford County. *Belair.*
A. B., Washington College, 1905. *Education.*

SAUL PRAEGER. Cumberland. *The Wentworth.*
University of Maryland (Law School). *Political Science.*

JOHN FREDERICK REQUARDT. Baltimore. 2235 *Eutaw Place.*
LL. B., University of Maryland, 1910. *Political Science.*

RICHARD HYNSON ROGERS. Chestertown.
M. E., Pratt Institute (Brooklyn), 1903. *Political Science.*

CLYDE CARROLL ROHR. Baltimore. 1309 *N. Gilmor St.*
S. B., Loyola College, 1909, and M. S., 1910. *Political Economy.*

EMILY LEDYARD SHIELDS. Los Angeles, Cal. 827 *Hamilton Terr.*
A. B., Bryn Mawr College, 1905, and A. M., 1906. *Classical Archaeology.*

WILLIAM WEBB SNIFFIN. Washington, D. C. *Washington.*
A. B., George Washington University, 1906, and A. M., 1907. *Romance Languages.*

GEORGE ALEXANDER STEELE. Baltimore. 1200 *Madison Av.*
A. B., St. John's College, 1884, and A. M., 1887. *Latin.*

H. WIRT STEELE. Baltimore. 1321 *Madison Av.*
University of Indiana. *Political Economy.*

EDWIN MITCHELL STURTEVANT. Baltimore. 1526 *W. Fayette St.*
LL. B., Baltimore Law School, 1910. *Political Science.*

GEORGE ROSS VEAZEY. Baltimore. 2907 *St. Paul St.*
A. B., Johns Hopkins University, 1910. *Political Science.*

EDWIN WARFIELD, JR. Howard County. *Woodbine.*
A. B., St. John's College, 1909. *Political Science.*

DAVID EMRICH WEGLEIN. Baltimore. 1833 *Linden Av.*
A. B., Johns Hopkins University, 1897. *Education.*

JESSIE SHAFER WENNER. Baltimore. 2003 *N. Calvert St.*
A. B., Goucher College, 1896; A. M., University of Chicago, 1908. *Latin.*

MABEL MINERVA YOUNG. Wellesley, Mass. 1102 *McCulloh St.*
A. B., Wellesley College, 1898; A. M., Columbia University, 1899. *Mathematics.*

(49)

GRADUATE STUDENTS IN MEDICINE

CANDIDATES FOR THE DEGREE OF M. D.

Fourth Year

LESTER ADAMS. Bangor, Me. 518 *N. Broadway.*
A. B., Bowdoin College, 1907.

CARY FINK DE ANGULO. St. Matthews, Ky. 608 *S. Ann St.*
A. B., Vassar College, 1906.

JAIME DE ANGULO. Paris, France. 608 S. *Ann St.*
B. es Lett, University of Paris, 1906; Cooper Medical College, 1906-07.

JOHN VAN DOREN BEDINGER. Anchorage, Ky. 604 *Lennox St.*
S. B., Princeton University, 1907.

WALTER SCOTT BENNETT. Glens Falls, N. Y. 1632 *Jefferson St.*
A. B., Colgate University, 1904.

WILLIAM EDWIN BIRD, JR. Baltimore. 776 *Frederick Av.*
A. B., Johns Hopkins University, 1907.

ARTHUR LEONARD BLOOMFIELD. Baltimore. 861 *Park Av.*
A. B., Johns Hopkins University, 1907.

JOHN ROCHESTER BOOTH. Petersburg, Va. 702 *N. Bdway.*
A. B., Randolph-Macon College, 1907.

GEORGE EDWARD BROCKWAY, JR. Salem, N. Y. 1625 *N. Broadway.*
A. B., Williams College, 1907; Summer Session, Cornell Univ., 1907.

BARNEY BROOKS. El Paso, Texas. 1623 *N. Bdway.*
B. S., University of Texas, 1905.

EARLE BUELL CARTER. Waterbury, Conn. 828 *N. Bdway.*
Ph. B., Yale University, 1907.

JOSEPH DAVID COHN. Corpus Christi, Texas. 1032 *N. Broadway.*
A. B., University of Texas, 1907.

JOHN COLLINSON, JR. South River. 109 *N. Broadway.*
A. B., St. John's College, 1907.

JOHN ARCHIBALD CAMPBELL COLSTON. Baltimore. 1016 *St. Paul St.*
Ph. B., Yale University, 1907.

MELTON DOWNIE COUNCIL. Helena, Ga. 1531 *N. Broadway.*
Ph. B., Emory College, 1905.

GEORGE WASHINGTON COX. Litchfield, Ill. 1636 *N. Caroline St.*
B. S., University of Chicago, 1907.

FRANCIS RANDOLPH CRAWFORD. Kernstown, Va. 702 *N. Bdway.*
A. B., Washington and Lee University, 1906.

DAVID MELVIN DAVIS. Buffalo, N. Y. 709 *St. Paul St.*
B. S., Princeton University, 1907.

WILLIAM THOMAS DE SAUTELLE. La Crosse, Wis. 25 *S. Broadway.*
A. B., University of Wisconsin, 1908, and Student of Medicine, *ibid*, 1907-1908.

WILLIAM MILAS DUNN. Lancaster, S. C. 1029 *N. Bdway.*
A. B., Davidson College, 1903; Summer Session, Columbia Univ., 1907.

RALPH HENRY DUNNING. Auburn, N. Y. 305 *N. Broadway.*
A. B., Yale University, 1907.

HIRAM FRIED. Baltimore. 2551 *Madison Av.*
A. B., Johns Hopkins University, 1907.

WILLIAM ARCHIBALD FRONTZ. Hughesville, Pa. 1119 *N. Caroline St.*
A. B., Princeton University, 1907.

WILLIAM DIXON FULLERTON. Chillicothe, O. 2331 *N. Calvert St.*
Ph. B., Yale University, 1907.

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A. B., Bryn Mawr College, 1905, and A. M., 1906. *Classical Archaeology.*

WILLIAM WEBB SNIFFIN. Washington, D. C. *Washington.*
A. B., George Washington University, 1906, and A. M., 1907. *Romance Languages.*

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A. B., St. John's College, 1884, and A. M., 1887. *Latin.*

H. WIRT STEELE. Baltimore. 1321 *Madison Av.*
University of Indiana. *Political Economy.*

EDWIN MITCHELL STURTEVANT. Baltimore. 1526 *W. Fayette St.*
LL. B., Baltimore Law School, 1910. *Political Science.*

GEORGE ROSS VEAZEY. Baltimore. 2907 *St. Paul St.*
A. B., Johns Hopkins University, 1910. *Political Science.*

EDWIN WARFIELD, JR. Howard County. *Woodbine.*
A. B., St. John's College, 1909. *Political Science.*

DAVID EMRICH WEGLEIN. Baltimore. 1833 *Linden Av.*
A. B., Johns Hopkins University, 1897. *Education.*

JESSIE SHAFER WENNER. Baltimore. 2003 *N. Calvert St*
A. B., Goucher College, 1896; A. M., University of Chicago, 1908. *Latin.*

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A. B., Wellesley College, 1898; A. M., Columbia University, 1899. *Mathematics.*

(49)

GRADUATE STUDENTS IN MEDICINE

CANDIDATES FOR THE DEGREE OF M. D.

Fourth Year

LESTER ADAMS. Bangor, Me. 518 *N. Broadway.*
A. B., Bowdoin College, 1907.

CARY FINK [illegible] St. Matthews, Ky. 608 *S. Ann St.*

[illegible] Paris, France. 608 S. *Ann St.*
[illegible] 1908; Cooper Medical College, 1906-07.

[illegible] Anchorage, Ky. 604 *Lennox St.*
[illegible] 1907.

[illegible] Glens Falls [illegible] 32 *Jefferson St.*
[illegible], 1904.

ROBERT PAUL ASHLEY. Baltimore. 1412 *Eutaw Place.*
A. B., Washington and Lee University, 1910. *English, French, and German.*

SAMUEL WARREN AYRES. Knoxville, Tenn. 261 *W. Hoffman St.*
A. B., University of Tennessee, 1906, and A. M., 1908. *Latin, Greek, and Sanskrit.*

HARVEY BASSLER. Myerstown, Pa. 1421 *McCulloh St.*
B. E., Albright College, 1903, and M. S., 1909; E. M., Lehigh University, 1908. *Geology and Physical Chemistry.*

RAYMOND BINFORD. Guilford College, N. C. 249 *W. Hoffman St.*
S. B., Earlham College, 1901; M. S., University of Chicago, 1906. *Zoology.*

RALPH ROTHERY BOUTON. St. Louis, Mo. 3219 *Windsor Av.*
S. B., Washington University, 1910. *Chemistry, Physical Chemistry, and Physics.*

THOMAS ROSS BROWN. Frankfort, Ind. 716 *Park Av.*
A. B., University of Michigan, 1902. *Bacteriology, Physiological Chemistry, and Pathology.*

MARY CACY BURCHINAL. Chestertown. 2030 *N. Calvert St.*
A. B., Washington College, 1896, and A. M., 1899. *Germanic Philology, German, and French.*

GRANVILLE BURRUSS. Ruther Glen, Va. 1115 *Linden Av.*
L. I., William and Mary College, 1895; A. B., Randolph-Macon College, 1904, and A. M., 1906. *Semitic Languages.*

JOHN LATTIMORE CARPENTER. Brooksville, Miss. 1719 *McCulloh St.*
S. B., Mississippi College, 1904, and A. M., 1905. *Chemistry, Physical Chemistry, and Mineralogy.*

GENTRY CASH. Emory, Va.
A. B., Emory and Henry College, 1907. *Chemistry, Physical Chemistry, and Mineralogy.*

LOTTA A. CASLER. Little Falls, N. Y. 19 *W. Chase St.*
A. B., Smith College, 1896. *Latin, Classical Archaeology, and English.*

LYTTLETON MORGAN CHAMBERS. Baltimore. 1322 *W. Lexington St.*
A. B., Johns Hopkins University, 1900. *Philosophy.*

JOSEPH CHANDLER. Livermore Falls, Me. 1124 *McCulloh St.*
A. B., Colby College, 1909. *Chemistry, Physical Chemistry, and Mineralogy.*

BURTON WILLIAM CLARK. Utica, N. Y. 1305 *Bolton St.*
S. B., Syracuse University, 1907, and M. S., 1908. *Geology, Mineralogy, and Chemistry.*

NILS Y. CLAUSON. Red Wing, Minn. 1318 *Bolton St.*
A. B., Luther College, 1901. *French, Latin, and Italian.*

ALGERNON COLEMAN. News Ferry, Va. 1124 *McCulloh St.*
A. B. and A. M., University of Virginia, 1901. *Romance Languages.*

CHARLES WYTHE COOKE. Front Royal, Va. 1309 *John St.*
A. B., Johns Hopkins University, 1908. *Geology.*

PAUL BELL DAVIS. Salem, Va. 909 *McCulloh St.*
A. B., Roanoke College, 1908, and A. M., 1909. *Chemistry, Physical Chemistry, and Mineralogy.*

HIRAM MARY GALLAGHER. El Paso, Texas. 144 *Jackson Pl.*

A. B., Catholic University of America, 1907; Summer Session, University of Chicago, 1907.

THOMAS HENRY GILLAND. Greencastle, Pa. 22 *N. Chester St.*

Ph. B., Lafayette College, 1907.

ERNEST OWSLEY GRANT. Louisville, Ky. 518 *N. Bdway.*

A. B., Central University of Kentucky, 1907.

ERNEST GEORGE GREY. Milwaukee, Wis. 25 *S. Bdway.*

A. B., University of Wisconsin, 1907, Student of Medicine, *ibid*, 1907-1908.

ELMER CHESTER GROSS. Walla Walla, Wash. 1527 *N. Bdway.*

B. L., Whitman College, 1906.

ROY WALLACE HAMMACK. Harrington, Wash. 1129 *N. Caroline St.*

A. B., University of Oregon, 1907.

CLIFFORD CLINTON HARTMAN. McKeesport, Pa. 129 *Jackson Pl.*

S. B., Pennsylvania College, 1907.

WILLIAM HALL HAWKINS. Midway, Ky. 518 *N. Broadway.*

A. B., Central University of Kentucky, 1906; Student, Hospital College of Medicine, 1906-07.

ERNEST SINGLETON HENDRY. Washington, D. C. 1505 *N. Caroline St.*

A. B., Johns Hopkins University, 1907.

WILLIAM BRAWNER HETFIELD. Brookland, D. C. 125 *Jackson Pl.*

A. B., Catholic University of America, 1907.

ANNA HUBERT. Seattle, Wash. 1705 *Fairmount Av.*

A. B., University of Washington, 1901, and A. M., 1904.

WILLIAM RUTLEDGE HUDSON. Luray, Va. 1029 *N. Broadway.*

A. B., Washington and Lee University, 1906.

JOHN ATKINSON HUNNICUTT, JR. Athens, Ga. 702 *N. Broadway.*

A. B., University of Georgia, 1907.

BARBARA HUNT. Bangor, Me. 1706 *E. Monument St.*

A. B., Vassar College, 1906; University of Maine, Summer School, 1907.

GEORGE IVES. Ft. Atkinson, Wis. 941 *N. Bdway.*

A. B., University of Wisconsin, 1907; Medical Student, Universities of Wisconsin and Chicago, 1907-09.

CONRAD JACOBSON. Chicago, Ill. 1524 *N. Broadway.*

S. B., Beloit College, 1900, Graduate Student, University of Chicago, three Summer Qrs.

NANCY BLANCHE JENISON. Chicago, Ill. 720 *N. Broadway.*

A. B., Wells College, 1898; Graduate Student, Univ. of Chicago, 1907.

CHARLES CHAUNCEY WINSOR JUDD. Pittsburg, Pa. 110 *Jackson Pl.*

A. B., Kenyon College, 1907.

NORMAN MACDONNELL KEITH. Toronto, Can. 110 *Jackson Pl.*

A. B., University of Toronto, 1908, and Medical Student, 1906-1908.

LLOYD WARREN KETRON. Bloomingdale, Tenn. 1119 *N. Caroline St.*

A. B., Grant University, 1907.

TEDROW SYLVESTER KEYSER. Canal Dover, O. 1022 *N. Bdway.*

A. B., Wittenberg College, 1907.

OLIVER KINSEY, JR. Kinsey, N. C. 510 *N. Broadway.*

A. B., University of Virginia, 1907, and Medical Student, 1907-09.

ARTHUR CHARLES KISSLING. Milwaukee, Wis. 941 *N. Bdway.*

A. B., University of Wisconsin, 1906; Medical Student, *ibid*, 1907-09.

BENJAMIN SCHÖNBRUN KLINE. Philadelphia, Pa. 318 *N. Bdway.*

A. B., Swarthmore College, 1907.

HOWARD JAMES KNOTT. Walla Walla, Wash. 1527 *N. Bdway.*

S. B., Whitman College, 1907.

LINDA BARTELS LANGE. New York, N. Y. 233 *W. Preston St.*

A. B., Bryn Mawr College, 1903.

WARREN EUGENE LEAPER. Green Bay, Wis. 802 *N. Bdway.*

A. B., University of Wisconsin, 1908; Student of Medicine, *ibid*, 1907-1908.

VEADER NEWTON LEONARD. New Haven, Conn. 1623 *N. Bdway.*

Ph. B., Yale University, 1907; Student, University of Frieburg, 1907-1908.

WILLIAM HENRY LICHT. Geneva, N. Y. 110 *Jackson Pl.*

S. B., Trinity College (Hartford), 1907.

HANS LISSER. San Francisco, Cal. 120 *Jackson Pl.*

A. B., University of California, 1907.

DREW WILLIAM LUTEN. Hickman, Ky. 518 *N. Bdway.*

A. B., Kentucky State University, 1901; Fellow, Vanderbilt University 1903-1904.

JOHN THOMSON MACCURDY. Toronto, Can. 709 *St. Paul St.*

A. B., University of Toronto, 1908; Student of Medicine, *ibid*, 1906-08.

ROBERT GEORGE MCALILEY. Chester, S. C. 1029 *N. Bdway.*

S. B., Davidson College, 1904; Student of Medicine, University of Maryland, 1907-1908.

HERBERT LEE MCNEIL. Houston, Tex. 1834 *E. Monument St.*

A. B., Southwestern University, 1906; Graduate Student, Univ. of Texas, 1906-1907.

MONROE A. MAAS. Selma, Ala. 111 *Jackson Pl.*

A. B., University of Alabama, 1907.

CHARLES GOODWIN MERRIAM. Lexington, Mass. 812 *N. Broadway.*

A. B., Yale University, 1907.

JAMES RAGLAN MILLER. Hartford, Conn. 906 *N. Calvert St.*

A. B., Yale University, 1907.

ERNEST LUTHER MORGAN. Waynesville, N. C. 109 *N. Bdway.*

S. B., Wake Forest College, 1907; Student of Medicine, *ibid*, 1905-1907.

JAMES ALOYSIUS O'DONNELL. Baltimore. 405 *Warren Av.*

A. B., Loyola College, 1906; Graduate Student, Johns Hopkins University. 1906-1907.

RALPH SHERBURNE PERKINS. Pittsfield, N. H. 518 *N. Bdway.*

A. B., Dartmouth College, 1907.

EVERETT DUDLEY PLASS. Poughkeepsie, N. Y. 702 *N. Bdway.*

A. B., Colgate University, 1907.

CARYL ASHBY POTTER. St. Joseph, Mo. 518 *N. Bdway.*

A. B., University of Missouri, 1908; Medical Department, *ibid*, 1907-1908.

IRA HUMPHREY PROUTY. Keene, N. H. 120 *Jackson Pl.*

S. B., Dartmouth College, 1907.

ARTHUR SAMUEL ROSENFELD. Portland, Ore. 804 *N. Broadway.*

A. B., Leland Stanford Jr. University, 1907.

AUGUSTA RUCKER. Austin, Tex. 1706 *E. Monument St.*

A. B., University of Texas, 1896, and A. M., 1900; Student, Medical Department, University of Wisconsin, June to October, 1907, and May to October, 1908.

CHARLES E. RYND. Westfield, N. Y. 1601 *N. Bdway.*

S. B., Hamilton College, 1907; M. S., 1910.

DWIGHT MILTON SAWYER. Glens Falls, N. Y. 706 *N. Bdway.*

Ph. B., Wesleyan University (Conn.), 1906.

MABEL SEAGRAVE. Seattle, Wash. 529 *N. Wolfe St.*

A. B., Wellesley College, 1905.

WALTER GRESHAM SEXTON. Marshfield, Wis. 802 *N. Bdway.*

A. B., University of Wisconsin, 1908, and Student of Medicine, 1907-08.

PAUL ROTHROCK SIEBER. Gettysburg, Pa. 129 *Jackson Pl.*

A. B., Pennsylvania College, 1907.

WILLIAM KNEPPER SKILLING. Lonaconing. 306 *W. Lanvale St.*

A. B., Johns Hopkins University, 1906.

HELEN WILLISTON SMITH. Norwalk, Conn. 1404 *E. Chase.*

A. B., Bryn Mawr College, 1906.

ROY ROSS SNOWDEN. Washington, Pa. 518 *N. Bdway.*

A. B., Washington and Jefferson College, 1907.

LEWIS CASS SPENCER. Jonesville, La. 1623 *N. Bdway.*

S. B., Tulane University, 1907; Graduate Student, Albert-Ludwig Univ., Freiburg, 1908-09.

MARSHALL BYRON SPONSLER. Collegeville, Pa. 702 *N. Bdway.*

A. B., Ursinus College, 1907.

ALEXANDER MCCULLEY STEVENS. Easton. 716 *N. Broadway.*

A. B., St. John's College, 1907.

GEORGE ADOLPH STEWART. Baltimore. 2425 *Madison Av.*

A. B., Johns Hopkins University, 1907.

EDGAR STILLMAN. San Francisco, Cal. 510 *N. Bdway.*

A. B., Leland Stanford Jr. University, 1907.

THORNTON EDWIN VAIL. Thompsonville, Conn. *Arlington Ave., Govans.*

Ph. B., Yale University, 1907.

CLIFFORD BLACK WALKER. South Pasadena, Cal. 716 *N. Bdway.*

S. B., University of California, 1906; Medical Student, *ibid*, 1906-1909.

WILLIAM JOSHUA WEESE. Sheridan, Mo. 1625 *N. Bdway.*

S. B. and A. B., University of Missouri, 1905, and Medical Student, 1907-1909.

ISIDORE KALISCH WIENER. Newark, N. J. 109 *Jackson Pl.*

A. B., Princeton University, 1907.

EDWIN ROBERT WIESE. Allegany, Pa. 1040 *N. Bdway.*

A. B., Western University of Pennsylvania, 1907.

CLAUD MAY WINN. Haynesville, La. 1814 *N. Bdway.*

S. B., Tulane University, 1906, and Student of Medicine, 1906-1907.

JULIAN MAST WOLFSOHN. San Francisco, Cal. 103 *Jackson Pl.*

S. B., University of California, 1905, and M. S., 1907.

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Third Year

CLARENCE LADELLE ANDREWS. Conway, La. 109 *N. Broadway.*

S. B., Louisiana State University, 1908; Kaiser Wilhelm University Strassburg, Germany, 1909.

EDWIN I. BARTLETT. Buhl, Ida. 1505 *N. Caroline St.*

A. B., Washington State College, 1908; Kaiser Wilhelm University, Strassburg, Germany, 1909.

JOSEPH HOWARD BEARD. Chesterfield. 320 *N. Carey St.*

A. B., St. John's College, 1902.

JANE ELIZABETH BIGELOW. Terre Haute, Ind. 104 *Jackson Pl.*

A. B., Butler College, 1907.

CHARLES ALBERT BOWERS. Wheeling, W. Va. 1513 *N. Bdway.*

S. B., West Virginia University, 1908; Summer Session, Bethany College, 1903; Summer Session, University of Wooster, 1904.

EVELETH WILSON BRIDGMAN. Woodbrook. *Woodbrook.*

A. B., Johns Hopkins University, 1908.

CYRUS CATHEY BROWN. Arkadelphia, Ark. 1338 *N. Eden St*

A. B., University of Arkansas, 1908.

JOHN LOUIS BUTSCH. Lynnville, Ind. *Hotel Hopkins.*

S. B., Purdue University, 1905.

RAYMOND JOHN CARY. Atlantic, Ia. 718 *N. Broadway.*

B. S., Iowa College, 1906; University of Chicago, Summer Session, 1904 and 1905; Medical Student, Western Reserve University, 1908-1910.

BURNS STODDARD CHAFFEE. Santa Ana, Cal. 808 *E. Preston St.*

A. B., Leland Stanford Jr. University, 1908.

ALAN MASON CHESNEY. Baltimore. 306 *W. Lanvale St.*

A. B., Johns Hopkins University, 1908.

JACOB COHEN. Baltimore. 1000 *N. Gay St.*

A. B., Johns Hopkins University, 1908.

MARYE YEAMANS DABNEY. Birmingham, Ala. 521 *N. Wolfe St.*

Ph. B., University of Chicago, 1908.

EDWIN GREENE DAVIS. Lincoln, Neb. 131 *Jackson Pl.*

A. B., University of Nebraska, 1909; Med. Dept., *ibid*, 1908-1910.

WILLIAM MILTON DUMM. Laramie, Wyo. 1711 *Fairmount Ave.*

S. B., Ohio Wesleyan University, 1908.

MILTON THOMAS EDGERTON, JR. Fremont, N. C. 1237 *N. Bdway.*

A. B., University of Georgia, 1908.

ROLAND FREDERICK FISHER. Baraboo, Wis. 941 *N. Broadway.*

S. B., University of Wisconsin, 1909, and Medical Student, 1907-09.

MARY RANDOLPH FLEMING. Lynchburg, Va. 104 *Jackson Pl.*

M. A., Randolph-Macon Woman's College, 1902.

OVID CLEMMONS FOOTE. Roaring River, N. C. 109 *N. Bdway.*

A. B., Wake Forest College, 1908.

WINTER REGINALD FRANTZ. Cumberland. 109 *N. Broadway.*

S. B., West Virginia University, 1908.

WILLA MAY FRICKE. New York, N. Y. 3930 *Park Heights Av.*

A. B., Barnard College, 1906; 2½ years Medical College and Hospital for Women and Children, 1906-1909.

JULIAN EUGENE GAMMON. Marianna, Fla. 810 *N. Bdway.*

S. B., University of Florida, 1908.

JAMES HEYWARD GIBBES. Columbia, S. C. 510 *N. Bdway.*

A. B. and S. B., University of South Carolina, 1908.

WILLIAM LEE GILLS. Bedford City, Va. 702 *N. Bdway.*

A. B., Randolph-Macon College, 1905.

FREDERICK AKIN GLASS. Booneville, Ky. 1706 *N. Caroline St.*

A. B., Central University (Ky.), 1908.

ERNEST WILLIAM GOODPASTURE. Nashville, Tenn. 518 *N. Bdway.*

A. B., Vanderbilt University, 1907.

ROSCOE WILLIS HALL. Millerstown, Pa. 1119 *N. Caroline St.*

Ph. B., Dickinson College, 1908.

JAMES B. HOLMES. Lynchburg, Va. 702 *N. Bdway.*

A. B. and A. M., University of Virginia, 1910, and Medical Student, 1908-1909.

SAMUEL HAYMANN HURWITZ. Chicago, Ill. 105 *Jackson Pl.*

A. B., Harvard University, 1907, and A. M., 1908; Kaiser Wilhelm University, Strassburg, Germany, 1909.

HELMINA JEIDELL. New York, N. Y. 105 *Jackson Pl.*

A. B., Barnard College, 1908; Special Student Pasteur Institute, Paris, Summer, 1909.

RUDOLPH ALFRED KOCHER. San Jose, Cal. 402 *E. Chase St.*

A. B., Leland Stanford Jr. University, 1908; Student of Medicine, University of Leipsic, 1909-1910.

HENRY HOFMANN LOOS. Baltimore. 524 *N. Pine St.*

A. B., Johns Hopkins University, 1908.

WALTER GAY LOUGH. Fairmont, W. Va. 1513 *N. Bdway.*

S. B., University of West Virginia, 1908.

OSWALD SWINNEY LOWSLEY. Los Angeles, Cal. 402 *E. Chase St.*

A. B., Leland Stanford Jr. University, 1905.

HARVEY ROSS MCALLISTER. Gettysburg, Pa. 137 *Jackson Pl.*

A. B., Pennsylvania College, 1908.

ATTENDANTS ON SINGLE COURSES

ALBERT LEROY AYLMER. Baltimore. 3649 *Park Heights Av.*
A. B., University of Minnesota, 1908. *Political Science.*

ROSA BALDWIN. Baltimore. 1615 *Linden Av.*
A. B., Goucher College, 1896. *Classical Archaeology.*

LEWIN WETHERED BARROLL. Chestertown. 807 *St. Paul St.*
A. B., Washington College, 1908, and Litt. B., 1910; A. B., Yale University, 1910. *Political Science.*

HARRY LINGAN CAPLES. Baltimore County. *Cockeysville.*
A. B., Johns Hopkins University, 1908. *History.*

EDWIN THOMAS CHEETHAM. Baltimore. 319 *W. Hoffman St.*
A. B., Wooster University, 1897. *Political Economy.*

ELSIE GETZENDANNER CLARK. Baltimore. 2227 *St. Paul St.*
A. B., Goucher College, 1909. *English.*

KLARA HECHTENBERG COLLITZ. Baltimore. 135 *W. Mt. Royal Av.*
University of Oxford, 1895; Ph. D., University of Heidelberg, 1900. *Germanics.*

MARY THERESA DALLAM. Baltimore. 1318 *Bolton St.*
University of Chicago and Harvard University (Summer Schools). *English.*

ALICE JOUVEAU DUBREUIL. Baltimore. 2315 *N. Charles St.*
A. B., Cornell University, 1906. *English.*

BENJAMIN EDWARD FLEAGLE. Baltimore Co. *Colonial Park.*
A. B., Western Maryland College, 1904. *Educational Psychology.*

ARTHUR CARY FLESHMAN. Baltimore.
A. M., Columbian University, 1903; Ph. D., New York University, 1910. *Education.*

REV. PAUL FOX. Baltimore. 516 *N. Luzerne St.*
A. B., Western Reserve University, 1906, and A. M., 1908; D. B., Oberlin College, 1907. *History.*

CHARLES FREDERICK GLOTH. Baltimore. 605 *St. Paul St.*
A. B., Yale University, 1897. *Romance Languages.*

REV. FRANCISCO GUGLIELMI. Baltimore 322 *S. High St.*
Gregorian University, Rome, Italy. *Philosophy.*

HENRIETTA HAGERTY. Baltimore. *The Severn.*
A. B., Vassar College, 1904. *English.*

EVAN DONOVAN HANS. Baltimore. 2123 *Linden Av.*
LL. B., University of Maryland, 1907. *Political Science.*

MARY BELLE HARRIS. Lewisburg, Pa. 821 *N. Charles St.*
A. B., Bucknell University, 1894, and A. M., 1895; Ph. D., University of Chicago, 1900. *Classical Archaeology.*

MARY ELLA HARRISON. Baltimore. 1025 *Madison Av.*
Ph. B., University of Chicago, 1910. *Classical Archaeology.*

ANABEL EUGENIA HARTMAN. Baltimore. 914 *N. Carrollton Av.*
A. B., Goucher College, 1908. *English.*

KATHERINE HOBACH. Baltimore. 2419 *N. Calvert St.*
A. B., Goucher College, 1898. *Astronomy.*

MILDRED ALBRO HOGE. Baltimore. 1006 *W. Lanvale St.*
A. B., Goucher College, 1908. *Biology.*

JOHN HULL HOSTETTER. Colo, Iowa. 1034 *N. Broadway.*
M. D., Northwestern University, 1910. *Chemistry.*

EDWIN BROWN KELLY. Baltimore. 507 *W. Mulberry St.*
A. B., Loyola College, 1910. *Biology.*

EDWARD K. LEE. Harford County. *Perryman.*
A. B., Loyola College, 1910. *Biology.*

EMMA GRACE LOTZ. Baltimore. 2129 *16th St., Walbrook.*
Phar. D., University of Maryland, 1906. *Chemistry.*

R. CLYDE MCKEE. Baltimore. 1605 *John St.*
LL. B., Baltimore Law School, 1909. *Political Science.*

HERBERT HAYES MURPHY. Baltimore County. *Glyndon.*
A. B., Western Maryland College, 1897, and A. M., 1905. *Education.*

JAMES STANISLAUS MURPHY. Baltimore.
A. B., Loyola College, 1909; Student of Law, University of Maryland. *Political Science.* *Presstman and 8th Sts., Walbrook.*

ISAAC LEWIS OTIS. Howard County. *Jessups.*
A. B., New York University, 1899. *Education.*

ROBERT MILTON OVERBECK. Baltimore County. *Govans.*
A. B., Johns Hopkins Univrsity, 1909. *Romance Languages.*

JAMES HERBERT OWENS. Harford County. *Havre de Grace.*
A. B., Randolph-Macon College, 1904. *Educational Psychology.*

PETER PECK. Baltimore, 1714 *McCulloh St.*
A. B., Johns Hopkins University, 1908. *Political Science.*

LEGRAND WINFIELD PERCE, JR. Baltimore. 1015 *Madison Av.*
A. B., Johns Hopkins University, 1907; LL. B., University of Maryland, 1909. *Political Science.*

REV. CLARENCE HOLTON POAGE. Baltimore. 3038 *Baker St.*
A. B., Kentuckey University, 1894; A. M., Transylvania University, 1909. *English.*

HARRY PRIMROSE PORTER. Harford County. *Belair.*
A. B., Washington College, 1905. *Education.*

SAUL PRAEGER. Cumberland. *The Wentworth.*
University of Maryland (Law School). *Political Science.*

JOHN FREDERICK REQUARDT. Baltimore. 2235 *Eutaw Place.*
LL. B., University of Maryland, 1910. *Political Science.*

RICHARD HYNSON ROGERS. Chestertown.
M. E., Pratt Institute (Brooklyn), 1903. *Political Science.*

CLYDE CARROLL ROHR. Baltimore. 1309 *N. Gilmor St.*
S. B., Loyola College, 1909, and M. S., 1910. *Political Economy.*

EMILY LEDYARD SHIELDS. Los Angeles, Cal. 827 *Hamilton Terr.*
A. B., Bryn Mawr College, 1905, and A. M., 1906. *Classical Archaeology.*

WILLIAM WEBB SNIFFIN. Washington, D. C. *Washington.*
A. B., George Washington University, 1906, and A. M., 1907. *Romance Languages.*

GEORGE ALEXANDER STEELE. Baltimore. 1200 *Madison Av.*
A. B., St. John's College, 1884, and A. M., 1887. *Latin.*

H. WIRT STEELE. Baltimore. 1321 *Madison Av.*
University of Indiana. *Political Economy.*

EDWIN MITCHELL STUBTEVANT. Baltimore. 1526 *W. Fayette St.*
LL. B., Baltimore Law School, 1910. *Political Science.*

GEORGE ROSS VEAZEY. Baltimore. 2907 *St. Paul St.*
A. B., Johns Hopkins University, 1910. *Political Science.*

EDWIN WARFIELD, JR. Howard County. *Woodbine.*
A. B., St. John's College, 1909. *Political Science.*

DAVID EMRICH WEGLEIN. Baltimore. 1833 *Linden Av.*
A. B., Johns Hopkins University, 1897. *Education.*

JESSIE SHAFER WENNER. Baltimore. 2003 *N. Calvert St*
A. B., Goucher College, 1896; A. M., University of Chicago, 1908. *Latin.*

MABEL MINERVA YOUNG. Wellesley, Mass. 1102 *McCulloh St.*
A. B., Wellesley College, 1898; A. M., Columbia University, 1899. *Mathematics.*

(49)

GRADUATE STUDENTS IN MEDICINE

CANDIDATES FOR THE DEGREE OF M. D.

Fourth Year

LESTER ADAMS. Bangor, Me. 518 *N. Broadway.*
A. B., Bowdoin College, 1907.

CARY FINK DE ANGULO. St. Matthews, Ky. 608 *S. Ann St.*
A. B., Vassar College, 1906.

JAIME DE ANGULO. Paris, France. 608 S. *Ann St.*
B. es Lett, University of Paris, 1906; Cooper Medical College, 1906-07.

JOHN VAN DOREN BEDINGER. Anchorage, Ky. 604 *Lennox St.*
S. B., Princeton University, 1907.

WALTER SCOTT BENNETT. Glens Falls, N. Y. 1632 *Jefferson St.*
A. B., Colgate University, 1904.

WILLIAM EDWIN BIRD, JR. Baltimore. 776 *Frederick Av.*
A. B., Johns Hopkins University, 1907.

ARTHUR LEONARD BLOOMFIELD. Baltimore. 861 *Park Av.*
A. B., Johns Hopkins University, 1907.

JOHN ROCHESTER BOOTH. Petersburg, Va. 702 *N. Bdway.*
A. B., Randolph-Macon College, 1907.

GEORGE EDWARD BROCKWAY, JR. Salem, N. Y. 1625 *N. Broadway.*
A. B., Williams College, 1907; Summer Session, Cornell Univ., 1907.

BARNEY BROOKS. El Paso, Texas. 1623 *N. Bdway.*
B. S., University of Texas, 1905.

EARLE BUELL CARTER. Waterbury, Conn. 828 *N. Bdway.*
Ph. B., Yale University, 1907.

JOSEPH DAVID COHN. Corpus Christi, Texas. 1032 *N. Broadway.*
A. B., University of Texas, 1907.

JOHN COLLINSON, JR. South River. 109 *N. Broadway.*
A. B., St. John's College, 1907.

JOHN ARCHIBALD CAMPBELL COLSTON. Baltimore. 1016 *St. Paul St.*
Ph. B., Yale University, 1907.

MELTON DOWNIE COUNCIL. Helena, Ga. 1531 *N. Broadway.*
Ph. B., Emory College, 1905.

GEORGE WASHINGTON COX. Litchfield, Ill. 1636 *N. Caroline St.*
B. S., University of Chicago, 1907.

FRANCIS RANDOLPH CRAWFORD. Kernstown, Va. 702 *N. Bdway.*
A. B., Washington and Lee University, 1906.

DAVID MELVIN DAVIS. Buffalo, N. Y. 709 *St. Paul St.*
B. S., Princeton University, 1907.

WILLIAM THOMAS DE SAUTELLE. La Crosse, Wis. 25 *S. Broadway.*
A. B., University of Wisconsin, 1908, and Student of Medicine, *ibid*, 1907-1908.

WILLIAM MILAS DUNN. Lancaster, S. C. 1029 *N. Bdway.*
A. B., Davidson College, 1903; Summer Session, Columbia Univ., 1907.

RALPH HENRY DUNNING. Auburn, N. Y. 305 *N. Broadway.*
A. B., Yale University, 1907.

HIRAM FRIED. Baltimore. 2551 *Madison Av.*
A. B., Johns Hopkins University, 1907.

WILLIAM ARCHIBALD FRONTZ. Hughesville, Pa. 1119 *N. Caroline St.*
A. B., Princeton University, 1907.

WILLIAM DIXON FULLERTON. Chillicothe, O. 2331 *N. Calvert St.*
Ph. B., Yale University, 1907.

HIRAM MARY GALLAGHER. El Paso, Texas. 144 *Jackson Pl.*

A. B., Catholic University of America, 1907; Summer Session, University of Chicago, 1907.

THOMAS HENRY GILLAND. Greencastle, Pa. 22 *N. Chester St.*

Ph. B., Lafayette College, 1907.

ERNEST OWSLEY GRANT. Louisville, Ky. 518 *N. Bdway.*

A. B., Central University of Kentucky, 1907.

ERNEST GEORGE GREY. Milwaukee, Wis. 25 *S. Bdway.*

A. B., University of Wisconsin, 1907, Student of Medicine, *ibid,* 1907-1908.

ELMER CHESTER GROSS. Walla Walla, Wash. 1527 *N. Bdway.*

B. L., Whitman College, 1906.

ROY WALLACE HAMMACK. Harrington, Wash. 1129 *N. Caroline St.*

A. B., University of Oregon, 1907.

CLIFFORD CLINTON HARTMAN. McKeesport, Pa. 129 *Jackson Pl.*

S. B., Pennsylvania College, 1907.

WILLIAM HALL HAWKINS. Midway, Ky. 518 *N. Broadway.*

A. B., Central University of Kentucky, 1906; Student, Hospital College of Medicine, 1906-07.

ERNEST SINGLETON HENDRY. Washington, D. C. 1505 *N. Caroline St.*

A. B., Johns Hopkins University, 1907.

WILLIAM BRAWNER HETFIELD. Brookland, D. C. 125 *Jackson Pl.*

A. B., Catholic University of America, 1907.

ANNA HUBERT. Seattle, Wash. 1705 *Fairmount Av.*

A. B., University of Washington, 1901, and A. M., 1904.

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A. B., Washington and Lee University, 1906.

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A. B., University of Georgia, 1907.

BARBARA HUNT. Bangor, Me. 1706 *E. Monument St.*

A. B., Vassar College, 1906; University of Maine, Summer School, 1907.

GEORGE IVES. Ft. Atkinson, Wis. 941 *N. Bdway.*

A. B., University of Wisconsin, 1907; Medical Student, Universities of Wisconsin and Chicago, 1907-09.

CONRAD JACOBSON. Chicago, Ill. 1524 *N. Broadway.*

S. B., Beloit College, 1900, Graduate Student, University of Chicago, three Summer Qrs.

NANCY BLANCHE JENISON. Chicago, Ill. 720 *N. Broadway.*

A. B., Wells College, 1898; Graduate Student, Univ. of Chicago, 1907.

CHARLES CHAUNCEY WINSOR JUDD. Pittsburg, Pa. 110 *Jackson Pl.*

A. B., Kenyon College, 1907.

NORMAN MACDONNELL KEITH. Toronto, Can. 110 *Jackson Pl.*

A. B., University of Toronto, 1908, and Medical Student, 1906-1908.

LLOYD WARREN KETRON. Bloomingdale, Tenn. 1119 *N. Caroline St.*

A. B., Grant University, 1907.

TEDROW SYLVESTER KEYSER. Canal Dover, O. 1022 *N. Bdway.*

A. B., Wittenberg College, 1907.

OLIVER KINSEY, JR. Kinsey, N. C. 510 *N. Broadway.*

A. B., University of Virginia, 1907, and Medical Student, 1907-09.

ARTHUR CHARLES KISSLING. Milwaukee, Wis. 941 *N. Bdway.*

A. B., University of Wisconsin, 1906; Medical Student, *ibid*, 1907-09.

BENJAMIN SCHÖNBRUN KLINE. Philadelphia, Pa. 318 *N. Bdway.*

A. B., Swarthmore College, 1907.

HOWARD JAMES KNOTT. Walla Walla, Wash. 1527 *N. Bdway.*

S. B., Whitman College, 1907.

LINDA BARTELS LANGE. New York, N. Y. 233 *W. Preston St.*

A. B., Bryn Mawr College, 1908.

WARREN EUGENE LEAPER. Green Bay, Wis. 802 *N. Bdway.*

A. B., University of Wisconsin, 1908; Student of Medicine, *ibid*, 1907-1908.

VEADER NEWTON LEONARD. New Haven, Conn. 1623 *N. Bdway.*

Ph. B., Yale University, 1907; Student, University of Frieburg, 1907-1908.

WILLIAM HENRY LICHT. Geneva, N. Y. 110 *Jackson Pl.*

S. B., Trinity College (Hartford), 1907.

HANS LISSER. San Francisco, Cal. 120 *Jackson Pl.*

A. B., University of California, 1907.

DREW WILLIAM LUTEN. Hickman, Ky. 518 *N. Bdway.*

A. B., Kentucky State University, 1901; Fellow, Vanderbilt University 1903-1904.

JOHN THOMSON MACCURDY. Toronto, Can. 709 *St. Paul St.*

A. B., University of Toronto, 1908; Student of Medicine, *ibid*, 1906-08.

ROBERT GEORGE MCALILEY. Chester, S. C. 1029 *N. Bdway.*

S. B., Davidson College, 1904; Student of Medicine, University of Maryland, 1907-1908.

HERBERT LEE MCNEIL. Houston, Tex. 1834 *E. Monument St.*

A. B., Southwestern University, 1906; Graduate Student, Univ. of Texas, 1906-1907.

MONROE A. MAAS. Selma, Ala. 111 *Jackson Pl.*

A. B., University of Alabama, 1907.

CHARLES GOODWIN MERRIAM. Lexington, Mass. 812 *N. Broadway.*

A. B., Yale University, 1907.

JAMES RAGLAN MILLER. Hartford, Conn. 906 *N. Calvert St.*

A. B., Yale University, 1907.

ERNEST LUTHER MORGAN. Waynesville, N. C. 109 *N. Bdway.*

S. B., Wake Forest College, 1907; Student of Medicine, *ibid*, 1905-1907.

JAMES ALOYSIUS O'DONNELL. Baltimore. 405 *Warren Av.*

A. B., Loyola College, 1906; Graduate Student, Johns Hopkins University, 1906-1907.

RALPH SHERBURNE PERKINS. Pittsfield, N. H. 518 *N. Bdway.*

A. B., Dartmouth College, 1907.

EVERETT DUDLEY PLASS. Poughkeepsie, N. Y. 702 *N. Bdway.*

A. B., Colgate University, 1907.

CARYL ASHBY POTTER. St. Joseph, Mo. 518 *N. Bdway.*

A. B., University of Missouri, 1908; Medical Department, *ibid*, 1907-1908.

IRA HUMPHREY PROUTY. Keene, N. H. 120 *Jackson Pl.*

S. B., Dartmouth College, 1907.

ARTHUR SAMUEL ROSENFELD. Portland, Ore. 804 *N. Broadway.*

A. B., Leland Stanford Jr. University, 1907.

AUGUSTA RUCKER. Austin, Tex. 1706 *E. Monument St.*

A. B., University of Texas, 1896, and A. M., 1900; Student, Medical Department, University of Wisconsin, June to October, 1907, and May to October, 1908.

CHARLES E. RYND. Westfield, N. Y. 1601 *N. Bdway.*

S. B., Hamilton College, 1907; M. S., 1910.

DWIGHT MILTON SAWYER. Glens Falls, N. Y. 706 *N. Bdway.*

Ph. B., Wesleyan University (Conn.), 1906.

MABEL SEAGRAVE. Seattle, Wash. 529 *N. Wolfe St.*

A. B., Wellesley College, 1905.

WALTER GRESHAM SEXTON. Marshfield, Wis. 802 *N. Bdway.*

A. B., University of Wisconsin, 1908, and Student of Medicine, 1907-08.

PAUL ROTHROCK SIEBER. Gettysburg, Pa. 129 *Jackson Pl.*

A. B., Pennsylvania College, 1907.

WILLIAM KNEPPER SKILLING. Lonaconing. 306 *W. Lanvale St.*

A. B., Johns Hopkins University, 1906.

HELEN WILLISTON SMITH. Norwalk, Conn. 1404 *E. Chase.*

A. B., Bryn Mawr College, 1906.

ROY ROSS SNOWDEN. Washington, Pa. 518 *N. Bdway.*

A. B., Washington and Jefferson College, 1907.

LEWIS CASS SPENCER. Jonesville, La. 1623 *N. Bdway.*

S. B., Tulane University, 1907; Graduate Student, Albert-Ludwig Univ., Freiburg, 1908-09.

MARSHALL BYRON SPONSLER. Collegeville, Pa. 702 *N. Bdway.*

A. B., Ursinus College, 1907.

ALEXANDER MCCULLEY STEVENS. Easton. 716 *N. Broadway.*
A. B., St. John's College, 1907.

GEORGE ADOLPH STEWART. Baltimore. 2425 *Madison Av.*
A. B., Johns Hopkins University, 1907.

EDGAR STILLMAN. San Francisco, Cal. 510 *N. Bdway.*
A. B., Leland Stanford Jr. University, 1907.

THORNTON EDWIN VAIL. Thompsonville, Conn. *Arlington Ave., Govans.*
Ph. B., Yale University, 1907.

CLIFFORD BLACK WALKER. South Pasadena, Cal. 716 *N. Bdway.*
S. B., University of California, 1906; Medical Student, *ibid*, 1906-1909.

WILLIAM JOSHUA WEESE. Sheridan, Mo. 1625 *N. Bdway.*
S. B. and A. B., University of Missouri, 1905, and Medical Student, 1907-1909.

ISIDORE KALISCH WIENER. Newark, N. J. 109 *Jackson Pl.*
A. B., Princeton University, 1907.

EDWIN ROBERT WIESE. Allegany, Pa. 1040 *N. Bdway.*
A. B., Western University of Pennsylvania, 1907.

CLAUD MAY WINN. Haynesville, La. 1814 *N. Bdway.*
S. B., Tulane University, 1906, and Student of Medicine, 1906-1907.

JULIAN MAST WOLFSOHN. San Francisco, Cal. 103 *Jackson Pl.*
S. B., University of California, 1905, and M. S., 1907.

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Third Year

CLARENCE LADELLE ANDREWS. Conway, La. 109 *N. Broadway.*

S. B., Louisiana State University, 1908; Kaiser Wilhelm University Strassburg, Germany, 1909.

EDWIN I. BARTLETT. Buhl, Ida. 1505 *N. Caroline St.*

A. B., Washington State College, 1908; Kaiser Wilhelm University, Strassburg, Germany, 1909.

JOSEPH HOWARD BEARD. Chesterfield. 320 *N. Carey St.*

A. B., St. John's College, 1902.

JANE ELIZABETH BIGELOW. Terre Haute, Ind. 104 *Jackson Pl.*

A. B., Butler College, 1907.

CHARLES ALBERT BOWERS. Wheeling, W. Va. 1513 *N. Bdway.*

S. B., West Virginia University, 1908; Summer Session, Bethany College, 1903; Summer Session, University of Wooster, 1904.

EVELETH WILSON BRIDGMAN. Woodbrook. *Woodbrook.*

A. B., Johns Hopkins University, 1908.

CYRUS CATHEY BROWN. Arkadelphia, Ark. 1338 *N. Eden St*

A. B., University of Arkansas, 1908.

JOHN LOUIS BUTSCH. Lynnville, Ind. *Hotel Hopkins.*

S. B., Purdue University, 1905.

RAYMOND JOHN CARY. Atlantic, Ia. 718 *N. Broadway.*

B. S., Iowa College, 1906; University of Chicago, Summer Session, 1904 and 1905; Medical Student, Western Reserve University, 1908-1910.

BURNS STODDARD CHAFFEE. Santa Ana, Cal. 808 *E. Preston St.*

A. B., Leland Stanford Jr. University, 1908.

ALAN MASON CHESNEY. Baltimore. 306 *W. Lanvale St.*

A. B., Johns Hopkins University, 1908.

JACOB COHEN. Baltimore. 1000 *N. Gay St.*

A. B., Johns Hopkins University, 1908.

MARYE YEAMANS DABNEY. Birmingham, Ala. 521 *N. Wolfe St.*

Ph. B., University of Chicago, 1908.

EDWIN GREENE DAVIS. Lincoln, Neb. 131 *Jackson Pl.*

A. B., University of Nebraska, 1909; Med. Dept., *ibid*, 1908-1910.

WILLIAM MILTON DUMM. Laramie, Wyo. 1711 *Fairmount Ave.*

S. B., Ohio Wesleyan University, 1908.

MILTON THOMAS EDGERTON, JR. Fremont, N. C. 1237 *N. Bdway.*

A. B., University of Georgia, 1908.

ROLAND FREDERICK FISHER. Baraboo, Wis. 941 *N. Broadway.*

S. B., University of Wisconsin, 1909, and Medical Student, 1907-09.

MARY RANDOLPH FLEMING. Lynchburg, Va. 104 *Jackson Pl.*

M. A., Randolph-Macon Woman's College, 1902.

OVID CLEMMONS FOOTE. Roaring River, N. C. 109 *N. Bdway.*

A. B., Wake Forest College, 1908.

WINTER REGINALD FRANTZ. Cumberland. 109 *N. Broadway.*

S. B., West Virginia University, 1908.

WILLA MAY FRICKE. New York, N. Y. 3930 *Park Heights Av.*

A. B., Barnard College, 1906; 2¼ years Medical College and Hospital for Women and Children, 1906-1909.

JULIAN EUGENE GAMMON. Marianna, Fla. 810 *N. Bdway.*

S. B., University of Florida, 1908.

JAMES HEYWARD GIBBES. Columbia, S. C. 510 *N. Bdway.*

A. B. and S. B., University of South Carolina, 1908.

WILLIAM LEE GILLS. Bedford City, Va. 702 *N. Bdway.*

A. B., Randolph-Macon College, 1905.

FREDERICK AKIN GLASS. Booneville, Ky. 1706 *N. Caroline St.*

A. B., Central University (Ky.), 1908.

ERNEST WILLIAM GOODPASTURE. Nashville, Tenn. 518 *N. Bdway.*

A. B., Vanderbilt University, 1907.

ROSCOE WILLIS HALL. Millerstown, Pa. 1119 *N. Caroline St.*

Ph. B., Dickinson College, 1908.

JAMES B. HOLMES. Lynchburg, Va. 702 *N. Bdway.*

A. B. and A. M., University of Virginia, 1910, and Medical Student, 1908-1909.

SAMUEL HAYMANN HURWITZ. Chicago, Ill. 105 *Jackson Pl.*

A. B., Harvard University, 1907, and A. M., 1908; Kaiser Wilhelm University, Strassburg, Germany, 1909.

HELMINA JEIDELL. New York, N. Y. 105 *Jackson Pl.*

A. B., Barnard College, 1908; Special Student Pasteur Institute, Paris, Summer, 1909.

RUDOLPH ALFRED KOCHER. San Jose, Cal. 402 *E. Chase St.*

A. B., Leland Stanford Jr. University, 1908; Student of Medicine, University of Leipsic, 1909-1910.

HENRY HOFMANN LOOS. Baltimore. 524 *N. Pine St.*

A. B., Johns Hopkins University, 1908.

WALTER GAY LOUGH. Fairmont, W. Va. 1513 *N. Bdway.*

S. B., University of West Virginia, 1908.

OSWALD SWINNEY LOWSLEY. Los Angeles, Cal. 402 *E. Chase St.*

A. B., Leland Stanford Jr. University, 1905.

HARVEY ROSS MCALLISTER. Gettysburg, Pa. 137 *Jackson Pl.*

A. B., Pennsylvania College, 1908.

WILLIAM BRADBURY MCCLURE. Elk Lick, Pa. 137 *Jackson Pl.*
S. B., Pennsylvania College, 1908.

HUGH MCCULLOCH. Little Rock, Ark. 814 *N. Bdway.*
A. B., University of Arkansas, 1908.

WILLIAM LAWRENCE MILLEA. Worcester, Mass. 109 *N. Bdway.*
A. B., Clark College, 1908.

EDGAR ALLEN MILLER. Gettysburg, Pa. 1711 *Fairmount Av.*
S. B., Pennsylvania College, 1908.

KNOX EMERSON MILLER. St. Joseph, Mo. 1338 *N. Eden St.*
A. B., William Jewell College, 1908.

NATHANIEL MILLS. Mt. Vernon, N. Y. 702 *N. Bdway.*
A. B., Williams College, 1908.

WILLIAM HAVILAND MORRISS. Baltimore. 1904 *Mt. Royal Ter.*
A. B., Haverford College, 1908.

WILLIAM NEILL, JR. Charles Town, W. Va. *Ann St. and*
A. B., St. John's College, 1908. *Fairmount Av.*

RALPH WILBUR NICHOLS. North Haven, Conn. 1338 *N. Eden St.*
Ph. B., Yale University, 1908.

LOUISE PEARCE. Boston, Mass. 2504 *St. Paul St.*
A. B., Leland Stanford Jr. University, 1907; Boston University School of Medicine, 1907-09.

CHARLES HAMLIN PELTON. Middletown, Conn. 102 *Jackson Pl.*
A. B., Trinity College (Conn.), 1905.

MAURICE CHARLES PINCOFFS, JR. Chicago, Ill. 529 *N. Wolfe St.*
S. B., University of Chicago, 1909; Rush Medical College, 1906-1909; Graduate School, 1909-1910.

MARTIN HAYWARD POST, JR. St. Louis, Mo. 709 *St. Paul St.*
A. B., Amherst College, 1908.

CARL WHEELER RAND. Monson, Mass. 518 *N. Bdway.*
A. B., Williams College, 1908, M. A., 1909.

CHARLES DWIGHT REID, JR. Auburn, N. Y. 1123 *N. Caroline St.*
A. B., Williams College, 1908.

MONT ROGERS REID. Oriskany, Va. 1510 *N. Bdway.*
A. B., Roanoke College, 1908.

HAROLD IRWIN REYNOLDS. Lexington, Ga. 305 *N. Bdway.*
A. B., University of Georgia, 1908.

MAX SPENCER ROHDÉ. Princeton, Ill. 529 *N. Wolfe St.*
S. B., University of Chicago, 1908.

PETER BENJAMIN SARASON. New Haven, Conn. 4 *N. Bdway.*
A. B., Yale University, 1909, and Medical Student, 1907-09.

HENRY CHRISTIAN SCHMEISSER. Baltimore. 2401 *Eutaw Pl.*

A. B., Johns Hopkins University, 1908.

RAYMOND LOUIS SCHULZ. Milwaukee, Wis. 1040 *N. Bdway.*

S. B., University of Wisconsin, 1908; Medical Student, *ibid*, 1908-1910.

NATHAN P. SEARS. Syracuse, N. Y. 1119 *N. Caroline St.*

Ph. B., Syracuse University, 1908.

REGINALD OLIVER SELLMAN. Baltimore. *The Mt. Royal.*

A. B., Johns Hopkins University, 1908.

ROLLA J. SHALE. Highland, Kan. 1022 *N. Bdway.*

A. B., Oberlin College, 1908.

ELLERY DE WITT SIMPSON. Westminster. 1017 *N. Bdway.*

A. B., Western Maryland College, 1908.

HARRY RICHMOND SLACK, JR. La Grange, Ga. 510 *N. Bdway.*

A. B., University of Georgia, 1908.

TRAMMELL STARR. Calhoun, Ga. 1237 *N. Broadway.*

A. B., Emory College, 1908.

THORNTON STEARNS. Ashville, N. C. 1711 *Fairmount Av.*

A. B., Davidson College, 1906.

CHARLES MOORE STEELE. Chicago, Ill. 113 *Jackson Pl.*

S. B., University of Chicago, 1904; Medical Department, University of Illinois, 1908-1909; Summer Quarter, University of Chicago, 1908.

HOLLAND NEWTON STEVENSON, 2ND. Pittsfield, Mass.

Ph. B., Yale University, 1908. 1717 *Fairmount Av.*

ABRAHAM STRAUSS. Lowell, Mass. 521 *N. Wolfe St.*

A. B., Harvard University, 1909.

DAVID CORBIN STREETT. Baltimore. 712 *Park Av.*

A. B., Johns Hopkins University, 1908.

JOHN SUNDWALL. Fairview, Utah.

S. B., University of Chicago, 1903, Ph. D., 1906, and Medical Student, 1906-08.

HARRY ROSWELL WAHL. Stratford, Wis. 1040 *N. Bdway.*

A. B., University of Wisconsin, 1908, and A. M., 1910; Med. Dept., *ibid*, 1908-1910.

ARTHUR L. WALTERS. Battle Ground, Ind. 702 *N. Bdway.*

S. B., Purdue University, 1904.

CHARLES HANSELL WATT. Thomasville, Ga. 510 *N. Bdway.*

S. B., Davidson College, 1906.

ADRIEL CLARK WEAKLEY. Shelbyville, Ky. 802 *N. Bdway.*

A. B., Georgetown College (Ky.), 1908.

LEWIS HILL WEED. Cleveland, O. 518 *N. Broadway.*

A. B., Yale University, 1908.

PAUL WEGEFARTH. Baltimore. 2227 *Eutaw Pl.*

A. B., Johns Hopkins University, 1908; Student of Medicine, University of Freiburg, 1909-1910.

DONALD BRECKENRIDGE WELLS. Hartford, Conn. 106 *Jackson Pl.*

A. B., Yale University, 1907.

ALEXANDER WATSON WILLIAMS. Washington, D. C. 305 *N. Bdway.*

A. B., Harvard University, 1908

FRANCIS THOMAS WILLIAMS. Poolesville. 1327 *N. Caroline St.*

A. B., Johns Hopkins University, 1908.

FREDERICK WILLIAM WITTICH Hazleton, Pa. 139 *Jackson Pl.*

A. B., Pennsylvania College, 1908.

ELEANOR BITTINGER WOLF. Baltimore. 2112 *Oak St.*

A. B., Woman's College of Baltimore, 1908.

GEORGE BANEY WOLFF. Myerstown, Pa. 724 *N. Bdway.*

A. B., Ursinus College, 1908.

JAMES AUGUSTUS WOOD. Selma, Ala. 1510 *N. Bdway.*

A. B., Southern University, 1907, University of Alabama, Summer, 1906.

HAROLD BURTON WOODWARD. Terryville, Conn. 102 *Jackson Pl.*

S. B., Wesleyan University (Conn.), 1908.

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Second Year

ARTHUR WILBURN ALLEN. Somerset, Ky. 1717 *Fairmount Av.*

A. B., Georgetown College (Ky.), 1909.

DAVID BALLANTYN ANDERSON. Chicago, Ill.

S. B., University of Chicago, 1910; Rush Medical College, 1908-1910.

GEORGE DE FOREST BARNETT. Santa Rosa, Cal. 1731 *Fairmount Av.*

A. B., Leland Stanford Jr. University, 1906, and A. M., 1909; Med. Dept., *ibid*, 1909-1910.

MAURICE BLOCHER BENDER. Gettysburg, Pa. 141 *Jackson Pl.*

S. B., Pennsylvania College, 1909.

GEORGE WILLIAM BISHOP. Baltimore. 1424 *Nicholson St.*

A. B., Johns Hopkins University, 1909.

HAL FULLERTON BOATWRIGHT. Wilmington, N. C. 1028 *N. Bdway.*

A. B., University of North Carolina, 1909; Med. Dept., *ibid*, 1908-1910.

ALBERT ADAM BORNSCHEUER. Pittsburg, Pa. 1922 *E. Lafayette Av.*

B. S., Washington and Jefferson College, 1909.

JAMES THOMAS BRENNAN. Clarksburg, W. Va. 1617 *N. Bdway.*

A. B., Rock Hill College, 1909.

EDITH BRONSON. East Hardwick, Vt. 1720 *Fairmount Av.*
A. B., Syracuse University, 1909; Med. Dept., *ibid*, 1909-1910.

NATHANIEL HAWLEY BRUSH. Towson. *Sheppard and Pratt Hospital.*
A. B., Johns Hopkins University, 1909.

NOLAND MACKENZIE CANTER. Baltimore. 303 *N. Stricker St.*
A. B., Randolph-Macon College, 1909.

WILBUR GLENN CARLISLE. Hillsboro, O. 1711 *Fairmount Av.*
A. B., Ohio Wesleyan University, 1909; Summer Quarter, University of Chicago, 1909.

HENRY WISDOM CAVE. Paducah, Ky. 1254 *N. Bdway.*
A. B., Central University of Kentucky, 1909.

*HARLEY TUTTLE CAVERLY. Rutland, Vt. 120 *Jackson Pl.*
A. B., Dartmouth College, 1909.

HOWARD LEE CECIL. Millersville, *Ann St. and Fairmount Av.*
A. B., St. John's College, 1908.

GEORGE DAVIES CHUNN. Holly Grove, Ark. 122 *Jackson Pl.*
S. B., University of Arkansas, 1908.

HELEN DOROTHY CLARKE. Boston, Mass. 104 *Jackson Pl.*
A. B., Vassar College, 1909.

ROBERT JAY COOK. Independence, Ia. 144 *Jackson Pl.*
A. B., State University of Iowa, 1909.

GEORGE WASHINGTON CORNER, 3d. Baltimore. *Roland Park.*
A. B., Johns Hopkins University, 1909.

KENT EDWARD DARROW. Fargo, N. D. 144 *Jackson Pl.*
S. B., North Dakota Agricultural College, 1909.

DANIEL DAVIS. Washington, D. C. 626 *N. Bdway.*
A. B., Harvard University, 1909.

THOMAS KIRBY DAVIS. Wabash, Ind. 1810 *N. Bdway.*
A. B., Wabash College, 1909; Med. Dept., Cornell University, 1909-1910.

HOWARD HENRY DIGNAN. San Francisco, Cal. 817 *N. Bdway.*
S. B., University of California, 1910; Med. Dept., *ibid*, 1909-1910.

WILLIAM DWYER. Hartford, Conn. 706 *N. Bdway.*
S. B., Trinity College (Conn.), 1909.

AVIS CHIPPEWA EATON. Princeton, Minn. 104 *Jackson Pl.*
A. B., Wellesley College, 1909.

CORTLANDT WHITEHEAD WILSON ELKIN. Smicksburg, Pa.
A. B., Allegheny College, 1909. 1220 *N. Eden St.*

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*Died November 15, 1910.

JOHN WILLIAM FAUST. Schenectady, N. Y. 428 *N. Bdway.*
S. B., Union College, 1909.

ROSWELL ELMORE FLACK. Rutherfordton, N. C. 1003 *McCulloh St*
A. B., Wake Forest College, 1901.

FREDERICK LAMONT GATES. Montclair, N. J. *Central Y. M. C. A. Building.*
A. B., Yale University, 1909.

LINTON GERDINE. Athens, Ga. 1336 *N. Caroline St.*
S. B., University of Georgia, 1909.

CLARENCE FLACK GRAHAM. Albany, N. Y. 428 *N. Broadway.*
A. B., Yale University, 1909.

HERBERT HART HAGAN. Trenton, Ky. 1717 *Fairmount Av.*
A. B., Georgetown College, (Ky.), 1908.

HENRY HUNTON HAMPTON. Hill City, Tenn. 109 *N. Bdway.*
S. B., University of Tennessee, 1903.

TURNER MOREHEAD HARRIS. Danville, Va. 1254 *N. Broadway.*
A. B., Randolph-Macon College, 1907; M. A., University of Virginia, 1909.

ISAAC PICARD HEYMANN. Dutchtown, La. 937 *N. Bdway.*
S. B., Louisiana State University, 1909.

CHARLES CRAWFORD HINTON. Macon, Ga. 424 *N. Broadway.*
Ph. B., Emory College, 1909.

WALTER RICHARD HOLMES. Macon, Ga. 1636 *N. Caroline St.*
A. B., University of Georgia, 1909.

GILBERT HORRAX. Montclair, N. J. 2025 *N. Calvert St.*
A. B., Williams College, 1909.

LEE HOWARD. Macon, Ga. 422 *N. Broadway.*
A. B., Mercer University, 1909.

JAMES HOWARD HUDDLESON, JR. Portland, Ore. *Central Y. M. C. A. Building.*
A. B., Princeton University, 1909.

EDGAR E. HUME, JR. Frankfort, Ky. *Central Y. M. C. A.*
A. B., Central University of Kentucky, 1908; Fellow, 1908-1909, and A. M., 1909.

AMOS FRANCIS HUTCHINS. Barstow. 109 *N. Broadway.*
A. B., St. John's College, 1908.

EDWARD JELKS. Macon, Ga. 1636 *N. Caroline St.*
A. B., Mercer University, 1909.

ALBERT LESTER JONES. Weatherford, Tex. 1625 *N. Bdway.*
S. B., Baylor University, 1909.

WILLIAM SHIREY KEISTER. Roanoke, Va. 1028 *N. Eden St.*
A. B., Roanoke College, 1907; Special Student, 1908-09, and A. M., 1910.

RICHARD FULTON KIEFFER. Hagerstown. 135 *N. Broadway.*
A. B., Franklin and Marshall College, 1907.

GEORGE AUGUSTUS LEONARD KOLMER. Salem, Va. 809 *N. Stricker St.*
A. B., Roanoke College, 1907, and A. M., 1909.

WALTER MAX KRAUS. New York, N. Y. 125 *Jackson Pl.*
A. B., Harvard University, 1910.

CHARLES ADAM LAUBACH. Nazareth, Pa. 2808 *E. Balto. St.*
S. B., Muhlenburg College, 1909.

ROBERT LOUIS LEVY. New York, N. Y. 102 *Jackson Pl.*
A. B., Yale University, 1909.

JOHN CUSHMAN LYMAN. Dayton, Wash. 1230 *N. Bdway.*
S. B., Whitman College, 1909.

PATRICK FRANCIS MCGUIRE. Piedmont, W. Va. 706 *N. Bdway.*
A. B., Rock Hill College, 1909.

WILLIAM CLIFFORD MCKEE. Los Angeles, Calif. 109 *N. Bdway.*
S. B., Pomona College, 1908.

WILLIAM HOWARD MICHAEL. Perryman. 1020 *N. Broadway.*
A. B., Johns Hopkins University, 1909.

LOUIS D. MINSK. Colchester, Conn. 318 *N. Bdway.*
A. B., Yale University, 1910; Medical Student, *ibid,* 1909-1910.

CHALMERS HALE MOORE. Birmingham, Ala. 1623 *N. Broadway.*
A. B., Washington and Lee University, 1909.

JOHN JAMIESON MORTON, JR. Worcester, Mass. 1711 *Fairmount Av.*
A. B., Amherst College, 1907.

ARISTINE PIXLEY MUNN. New York, N. Y. 2400 *N. Calvert St.*
A. B., Bryn Mawr College, 1909.

WILLIAM EDWARD NESBIT. Fayetteville, Ark. 1228 *N. Eden St.*
A. B., University of Arkansas, 1909.

MERLE CORNELIUS NEWKIRK. Ellicottville, N. Y. 1220 *N. Eden St.*
Ph. B., Syracuse University, 1909.

HAROLD HASTINGS NEWMAN. Woodstock, Va. 1622 *N. Bdway.*
A. B., Randolph-Macon College, 1909.

HERBERT HAMMOND OGBURN. Greensboro, N. C. 1228 *N. Eden St.*
S. B., West Lafayette College, 1908; Medical Student, University of North Carolina, 1908-09.

WILLIAM HARWOOD OLMSTED. Cedar Rapids, Ia. 135 *N. Bdway.*
S. B., Coe College, 1909.

JOHN KELSO ORMOND. Princeton, N. J. 1633 *N. Bdway.*
A. B., Princeton University, 1906.

FRANK LAFAYETTE PASCHAL. San Antonio, Tex. 1711 *Fairmount Av.*
A. B., University of Texas, 1909; Summer Session, University of Chicago, 1908.

LAWRENCE TYLER POST. St. Louis, Mo. 709 *St. Paul St.*
A. B., Yale University, 1909.

GROVER FRANCIS POWERS. West Lafayette, Ind.
S. B., Purdue University, 1908. 1701 *N. Caroline St.*

WILLIAM DANBRIDGE REDDISH. Somerset, Ky. 1717 *Fairmount Av.*
A. B., Kentucky State University, 1909.

THOMAS MILTON RIVERS. Jonesboro, Ga. 424 *N. Broadway*
A. B., Emory College, 1909.

ETHEL MAY ROCKWOOD. Townsend, Mass. *S. W. cor. Ann St. and Fairmount Av.*
S. B., Simmons College, 1909.

AUGUSTA RUBY SCOTT. Bethany, Ill. 1405 *Park Av.*
Ph. B., University of Chicago, 1905; Graduate Student, University of Zurich, 1907-1909; Graduate Student, University of Freiburg, 1908-1910.

ROBERT WILSON SELBY. Bur gess' Store, Va. 1028 *N. Eden St.*
A. B., Western Maryland College, 1907.

AUSTIN SHAW. Milbridge, Me. 120 *Jackson Pl.*
S. B., Colby College, 1909.

HENRY NEWTON SHAW. Oxford, Pa. 211 *W. Franklin St.*
A. B., Princeton University, 1907.

FREDERICK JANNEY SMITH. Baltimore. 1007 *Madison Av.*
A. B., Johns Hopkins University, 1909.

ROSCOE ROY SPENCER. West Point, Va. 109 *N. Bdway.*
A. B., Richmond College, 1909.

CHARLES BAKER THOMPSON. Baltimore. 212 *E. Chase St.*
A. B., Haverford College.

MARTILLUS H. TODD. Baltimore. 1202 *E. Monument St.*
A. B., Johns Hopkins University, 1909.

LEO STEWART TRASK. Springfield, Me. 29 *W. Biddle St.*
S. B., Colby College, 1909.

FRANCIS BERGER TRUDEAU. Saranac Lake, N. Y. 2025 *N. Calvert St.*
A. B., Yale University, 1909.

JOSEPH RICHARD TURNER, JR. Tacoma, Wash. 109 *N. Bdway.*
S. B., Whitworth College, 1909.

FRANKLIN CLARK WAGENHALS. Columbus, O. 144 *Jackson Pl.*
A. B., Ohio State University, 1907, and Graduate Student, 1907-08.

SHELTON HUGHES WATKINS. Owensboro, Ky. 1706 *N. Caroline St.*
A. B., Central University of Kentucky, 1908, and A. M., 1909.

ERNEST MILTON WATSON. Providence, R. I. 804 *N. Bdway.*
Ph. B., Brown University, 1907, and A. M., 1909.

ETHEL MADELAINE WATTERS. Santa Cruz, Cal. 104 *Jackson Pl.*
A. B., Leland Stanford Jr. University, 1909; Med. Dept., *ibid*, 1909-1910.

MAURICE STEVENSON WEAVER. Gettysburg, Pa. 141 *Jackson Pl.*
S. B., Pennsylvania College, 1909.

NORMAN HARRIS WILLIAMS. Moodus, Conn. 804 *N. Bdway.*
Ph. B., Brown University, 1909.

WILLIAM WALTER YOUNG. Danville, Va. 1808 *W. Balto. St.*
A. B., Randolph-Macon College, 1909.

JACOB LANDIS ZIMMERMAN. Palmyra, Pa. 109 *N. Broadway.*
A. B., Franklin and Marshall College, 1909.

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First Year

GROVER A. BATTEN. Lost Creek, W. Va. 1623 *N. Broadway.*
A. B., Washington and Lee University, 1905.

MABEL BELT. Baltimore. 613 *Reservoir St.*
A. B., Goucher College, 1910.

RALPH BOEME BETTMAN. Chicago, Ill. 112 *Jackson Pl.*
A. B., Williams College.

GOULD SHELTON BISSELL. Shelton, Conn. 113 *Jackson Pl.*
A. B., Yale University, 1909.

JULIUS BENJAMIN BOEHM. St. Louis, Mo. 318 *N. Broadway.*
S. B., St. Louis University, 1910.

KATE BRECKENRIDGE BOGLE. Danville, Ky. 301 *E. 22nd St.*
A. B., Woman's College of Baltimore, 1909.

ERNEST SPEERS DU BRAY. Cincinnati, O. 318 *N. Broadway.*
A. B., University of Cincinnati, 1910.

FRANCIS PATRICK CARROLL. Hartford, Conn. 125 *Jackson Pl.*
S. B., Trinity College (Conn).

DAVID WENDEL CARTER, JR. San Antonio, Tex. 1818 *W. Balto. St.*
A. B., Southwestern University, 1909, and A. M., 1910.

DOROTHY CHILD. Philadelphia, Pa. 104 *Jackson Pl.*
A. B., Bryn Mawr College, 1910.

MILDRED CLARK. Brookline, Mass. 104 *Jackson Pl.*
A. B., Wellesley College, 1910.

HOWARD SPENCER COLWELL. Auburn, N. Y. 1123 *N. Caroline St.*
S. B., Colgate University, 1910.

ROBERT HOPE CRAWFORD. Rock Hill, S. C. 1814 *N. Bdway.*
S. B., Davidson College, 1910.

ISAAC DAVIS. Pittsburgh, Pa. 116 *Jackson Pl.*
A. B., Harvard University, 1910.

RALPH MOORE DODSON. Baker City, Ore. 1322 *N. Caroline St.*
A. B., University of Oregon, 1910.

DRAYTON HOWARD DOHERTY. Selma, Ala. 1739 *Fairmount Ave.*
A. B., Howard College, 1910.

JOHN CALVERT DONALDSON. Philadelphia, Pa. 106 *Jackson Pl.*
Ph. B., Yale University, 1910.

HARRY BRIGHT DORNBLASER. Springfield, O. 1022 *N. Bdway.*
A. B., Wittenberg College, 1907, and A. M., 1910.

EDMUND FREDERIC DUCASSE. Bordeaux, France. 1632 *Jefferson St.*
A. B., University of Washington, 1910.

WILLIAM CORE DUFFY. Wilson, N. C. 812 *N. Broadway.*
A. B., Wake Forest College, 1910.

JOHN BAXTER DUNCAN. Macon, Ga. 1636 *N. Caroline St.*
A. B., Mercer University, 1910.

GEORGE R. DUNN. Princeton, Minn. 1220 *N. Bdway.*
Ph. B., Hamline University, 1910.

HAROLD ARNOLD EASTERBROOKS. Providence, R. I.
S. B., Rhode Island State College, 1910.

MARION W. EMRICK. Shamokin, Pa. 716 *N. Broadway.*
Ph. B., Franklin and Marshall College, 1910.

FRANK ALEXANDER EVANS. Wilkinsburg, Pa. 1624 *N. Bdway.*
A. B., Washington and Jefferson College, 1910.

LEROY NEWTON FLEMING. Oxford, O. 1021 *N. Broadway.*
A. B., Miami University, 1910.

MORRIS FLEXNER. Louisville, Ky. 103 *Jackson Pl.*
A. B., University of Michigan, 1910.

MARY LOUISE FRAZEE. Pittsburgh, Pa. 1712 *Madison Av.*
A. B., Woman's College of Baltimore, 1908; Graduate Student, Johns Hopkins University, 1908-1909.

HAROLD BEARCE GARDNER. New Hampton, Ia. 718 *N. Bdway.*
S. B., Grinnell College, 1910.

FLOYD GRAVE. Monrovia, Ind. *Wyndhurst Ave.*
S. B., Carleton College, 1908.

LOUISE GULICK. West Roxbury, Mass. 1705 *Fairmount Ave.*
A. B., Oberlin College, 1909; A. M., Clark University, 1910.

HUGH JOHNSON HAGAN. Roanoke, Va. 1743 *Jefferson St.*
A. B., Washington and Lee University, 1910.

RAYMOND FISHER HAIN. Bernville, Pa. 527 *N. Wolfe St.*
S. B., Bucknell University, 1910.

RAYMOND ISRAEL HALL. Mill Hall, Pa. 1515 *N. Bdway.*
S. B., Wesleyan University (Conn.), 1909.

BRYANT EUGENE HARRELL. Norfolk, Va. 1020 *N. Broadway.*
A. B., Randolph-Macon College, 1907.

WALTER CLARK HAUPT. Baltimore. 2511 *Madison Ave.*
Ph. D., Johns Hopkins University, 1908; Graduate Student, University of Michigan, 1910.

DANIEL TILLETT HENDERSON. Macon, Ga. 810 *N. Broadway.*
A. B., Mercer University, 1910.

JOHN TAYLOR HENDERSON. Macon, Ga. 810 *N. Broadway.*
A. B., Mercer University, 1910.

MARY ASHMUN HODGE. San Diego, Cal. 104 *Jackson Pl.*
A. B., Leland Standford Jr. University, 1908; Graduate Student, *ibid*, 1909-1910.

FRANK M. HOUCK. Boiling Springs, Pa. 136 *Richmond St.*
Ph. B., Dickinson College, 1910.

LYMAN FOSTER HUFFMAN. Galion, O. 1032 *N. Broadway.*
S. B., Ohio Wesleyan University, 1910.

JAMES ELDER HUTCHISON. Xenia, O. 810 *N. Broadway.*
A. B., Ohio State University, 1909; Graduate Student, *ibid*, 1909-1910.

RUTH INGRAHAM. Brooklyn, N. Y. 239 *W. Biddle St.*
A. B., Vassar College, 1907; Graduate Student, Barnard College, 1909-1910.

WILLIAM DAVID JACK. Peru, Nebr. 718 *N. Bdway.*
A. B., Creighton University, 1908; Graduate Student, University of Chicago, 1909-1910.

WALTER FALKE JONES. Utica, N. Y. 122 *Jackson Pl.*
A. B., Hamilton College, 1908, and A. M., 1911.

CLAUDE CURRIE KELLY. Lebanon, Fla. 1810 *N. Broadway.*
S. B., Davidson College, 1909.

CLARENCE SEARLE KETCHAM. Newburgh, N. Y. 1624 *N. Bdway.*
B. L., Rutgers College, 1910.

JOHN THEODORE KING, JR. Baltimore. 1425 *Eutaw Place.*
A. B., Princeton University, 1910.

LEIGH SEWARD KRAKE. Sioux Falls, S. D. 131 *Jackson Pl.*
A. B., University of Nebraska, 1907.

CHARLES ELMER MAGOUN. Sioux City, Iowa. 125 *Jackson Pl.*
A. B., Morningside College, 1910.

NORMAN CLYDE MARVEL. Baltimore. 2026 *W. Fayette St.*
A. B., Johns Hopkins University, 1910.

RUFUS AYERS MORISON. Big Stone Gap, Va.
Graduate, Virginia Military Institute, 1905.

ROSCOE E. MOSIMAN. Aberdeen, S. Dak. 1041 *N. Bdway.*
S. B., Huron College, 1910.

ROBERT DAVIES MOYLE. Toronto, Canada. 112 *Jackson Pl.*
A. B., McMaster University, 1908.

JOHN SHAFFER PLUMER. Emsworth, Pa. 1122 *Mosher St.*
S. B., University of Pittsburgh, 1909.

FRED BANGS RAWLINGS. Sandersville, Ga. 424 *N. Bdway.*
S. B., Emory College, 1910.

LESLIE HALL REDELINGS. Marinette, Wis. 318 *N. Bdway.*
S. B., Northwestern University, 1909, and M. S., 1910.

JOHN DAVIS REICHARD. Fairplay. 125 *Jackson Place.*
A. B., Trinity College (Conn.), 1910.

FERDINAND OSCAR W. REINHARD. Baltimore. 1400 *Linden Ave.*
A. B., Johns Hopkins University, 1908.

DOUGLAS FORD ROBBINS. Mason City, Ia. 609 *Roland Av., Roland Pk.*
A. B., Morningside College, 1907.

AARON ROBINSON. Baltimore. 1100 *E. Fayette St.*
A. B., Johns Hopkins University, 1910.

ALMA SOPHIA ROTHHOLZ. Baltimore. 2108 *Bolton St.*
A. B., Smith College, 1910.

LIPPMAN LEVY ROTHSCHILD. Buffalo, N. Y. 105 *Jackson Pl.*
A. B., Yale University, 1910.

F. ALLEN RUTHERFORD. Royalton, Pa. 1731 *Fairmount Av.*
A. B., Lebanon Valley College, 1910.

HARRY SALTZSTEIN. Milwaukee, Wis. 318 *N. Bdway.*
Ph. B., Yale University, 1910.

JOHN JOSEPH S. SCHMITT. Brooklyn, N. Y. 118 *Jackson Pl.*
A. B., St John's College (Brooklyn). 1910.

JOHN HOLT SEWELL. Jacksboro, Tex. 1041 *N. Bdway.*
E. E., University of Texas, 1908.

FLOYD ELMER SHAFFER. Lebanon, Pa. 1731 *Fairmount Av.*
A. B., Lebanon Valley College, 1910.

JOSEPH LESLIE SHERRICK. Monmouth, Ill. 527 *N. Wolfe St.*
A. B., Monmouth College, 1908; A. M., Yale University, 1910.

LEROY BRIGGS SHERRY. Pasadena, Calif. 716 *N. Bdway.*
A. B., University of Illinois, 1910.

RICHARD LEE SILVESTER. College Park. 924 *N. Calvert St.*
S. B., Maryland Agricultural College, 1909; Graduate Student, *Ibid,* 1909-1910.

JOHN FREDERICK SMITH. Cedar Falls, Ia. 706 *N. Bdway.*
A. B., Lake Forest University, 1907.

L. HOWARD SMITH. Huron, S. Dak. 1041 *N. Bdway.*
S. B., Huron College, 1910.

LINTON KELLY STARR. Oxford, Ga. 424 *N. Broadway.*
S. B., Emory College, 1910.

LANDON ELWOOD STUBBS. Belroi, Va. 1022 *N. Broadway.*
A. B., Randolph-Macon College, 1910.

HERBERT DOUGLAS TAYLOR. Baltimore. 1204 *N. Broadway.*
A. B., St. John's College, 1910.

GROVER TRACY. Lineboro. 113 *Jackson Place.*
A. B., Pennsylvania College, 1909.

OTTO E. UTZINGER. Astoria, Ore. 1731 *Fairmount Av.*
A. B., Leland Stanford, Jr., University, 1910.

JOSEPH STEPHENS VANNEMAN. Havre de Grace. 136 *Richmond St.*
Ph. B., Dickinson College, 1910.

LAURIE VAN VALZAH. Springfield, Ore. 1123 *N. Caroline St.*
A. B., University of Oregon, 1910.

JOSEPH WEBB. Springfield, O. 1022 *N. Bdway.*
A. B., Wittenberg College, 1910.

ROSCOE CLAYTON WEBB. Tracy, Minn.
A. B., University of Minnesota, 1911.

JEROME PIERCE WEBSTER. Plymouth, N. H. 305 *N. Bdway.*
A. B., Trinity College (Conn.), 1910.

LEON LEVERETT WILDMAN. Wolcottville, Ind. 318 *N. Bdway.*
A. B., Wabash College, 1910.

HARRY EUGENE WILSON. Tilghmans. 1028 *N. Broadway.*
A. B., St. John's College, 1910.

SYLVAIN BEER WOLFF. Washington, La. 1032 *N. Bdway.*
S. B., Louisiana State University, 1910.

EVANS BEAUCHAMP WOOD. Brundidge, Ala.
S. B., Alabama Polytechnic Institute, 1907, and M. S., 1908.

ALAN CHURCHILL WOODS. Baltimore. 842 *Park Ave.*
A. B., Johns Hopkins University, 1910.

MARY WHITALL WORTHINGTON. New York, N. Y. 1228 *Madison Av.*
A. B., Bryn Mawr College, 1910.

HERBERT MAXWELL NASH WYNNE. Bethany, W.Va. *S.W. Cor. Ann St.*
S. B., Bethany College, 1906, A. M., 1907; Graduate Student, Ohio State Univ., 1909. *and Fairmount Av.*

ISADORE ZADEK. Montgomery, Ala. 109 *Jackson Pl.*
S. B., Alabama Polytechnic Institute, 1910. (91)

PHYSICIANS ATTENDING SPECIAL COURSES, 1910-11

H. SETH ANDERTON. Baltimore.
M. D., University of Maryland, 1910. *Medicine.*

MORRISS CAHN. Lancaster, Pa.
M. D., University of Maryland, 1910. *Medicine.*

LESTER B. CAVINS. Bloomington, Ill.
M. D., Baltimore Medical College, 1904. *Medicine.*

CHARLES E. CLARK. Sivas, Turkey.
M. D., University of Michigan, 1902. *Medicine.*

CHARLES B. ENSOR. Baltimore.
M. D., Baltimore Medical College, 1903. *Neurology.*

AMEEN V. FAREED. Ispahan, Persia.
M. D., University of Illinois, 1907. *Medicine.*

NORMAN W. FILE. Roanoke, Va.
M. D., Baltimore Medical College, 1908. *Medicine and Pediatrics.*

ERNEST H. GAITHER. Baltimore.
M. D., Baltimore Medical College, 1905. *Medicine.*

FRANK GARVEY. Scranton, Pa.
M. D., Medico-Chirurgical College (Phila.), 1909. *Genito-Urinary Diseases.*

HENRY D. GILMAN. Elkton, Va.
M. D., University College of Medicine (Richmond), 1904. *Medicine.*

J. SCOTT GOODPASTER. Owingsville, Ky.
M. D., Louisville Hospital Medical College, 1908. *Medicine.*

ARTHUR J. GRIFFETH. Comer, Ga.
M. D., University of Georgia, 1904. *Medicine.*

E. HELLER HENNING. Baltimore.
M. D., University of Maryland, 1908. *Medicine.*

JOHN H. HOSTETTER. Colo, Ia.
M. D., Northwestern University, 1910. *Bacteriology.*

J. KNOX INSLEY. Baltimore.
M. D., University of Maryland, 1908. *Pediatrics.*

EDWARD T. JARVIS. Macomb, Ill.
M. D., College of Physicians and Surgeons (Chicago), 1904. *Gross Anatomy.*

LEWIS W. JEFFERIES. Adelaide, S. Australia.
M. B., University of Adelaide, 1907.

THOMAS W. KAY. Scranton, Pa.
M. D., College of Physicians and Surgeons (Balt.), 1879. *Medicine.*

DANIEL I. LEATHERMAN. Thurmont.
M. D., College of Physicians and Surgeons (Balt.), 1886. *Medicine.*

KATE W. LEATHERMAN. Thurmont.
M. D., Woman's Medical College (Phila.), 1895. *Medicine.*

HARRY M. LEE. New London, Conn.
M. D., College of Physicians and Surgeons (N. Y.), 1898. *Surgery and Gross Anatomy.*

MURDOCK MACGREGOR. Fargo, N. Dak.
M. D. C. M., Trinity University (Toronto), 1897. *Genito-Urinary Surgery.*

RICE K. MCCLANAHAN. East Las Vegas, N. Mexico.
M. D., Jefferson Medical College, 1898. *Medicine.*

LESLIE B. MILLER. Kansas, City, Mo.
M. D., University Medical College (Kansas City), 1907. *Medicine.*

THOMAS PARKER. Klamath Falls, Ore.
M. D., Rush Medical College, 1886. *Medicine.*

WILLIAM E. SANDERS. Alta, La.
M. D., Marion Sims College of Medicine, 1893. *Gross Anatomy.*

FRANK H. SMITH. Richmond, Va.
M. D., University College of Medicine (Richmond), 1904. *Medicine.*

HARRY G. STEELE. Keystone, W. Va.
M. D., College of Physicians and Surgeons (Balt.), 1903. *Gynecology, Pathology, and Obstetrics.*

SIDNEY STRAUSS. Chicago, Ill.
M. D., Harvard University, 1904. *Medicine.*

MERRICK W. SWORDS. Opelousas, La.
M. D., Tulane University, 1907. *Genito-Urinary Surgery.*

WILLIAM D. WHITTEN. Baltic, Mich.
M. D., University of Michigan, 1902. *Medicine and Pediatrics.*

O. CLARK WILLHITE. Chicago, Ill.
M. D., Rush Medical College, 1896. *Medicine.*

AMELIA V. ZIMMERMAN. Baltimore.
M. D., Southern Homeopathic Medical College, 1895. *Medicine and Pediatrics.*

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PHYSICIANS ATTENDING SPECIAL COURSES DURING 1910

[Too late for the Register for 1909-10.]

ERNEST V. ACKERMAN. Fredericktown, Ohio.
M. D., Ohio Medical University, 1902. *Medicine.*

WILLIAM H. BODENSTAB. Bismarck, N. D.
M. D., Jefferson Medical College, 1893. *Medicine and Ophthalmology.*

PHARES A. BOYKIN. Jeanerette, La.
M. D., Medical College of Alabama (Mobile), 1896. *Medicine.*

SAMUEL H. BURTON. Parnassus, Va.
M. D., University of Virginia, 1897. *Gynecology.*

GEORGE F. BUSH. Carnesville, Ga.
M. D., Atlanta College of Physicians and Surgeons, 1909. *Medicine.*

FRANCISCO R. CANESCO. Monterey, Mexico.
M. D., School of Medicine, City of Mexico, 1900. *Gynecology.*

JOHN F. CHAMBERLAIN. Natchez, Miss.
M. D., Tulane University, 1906. *Genito-Urinary Surgery.*

WHEELER WILKINSON COMPTON Birmingham, Ala.
M. D., Vanderbilt University, 1903. *Medicine.*

CLARIBEL CONE. Baltimore.
M. D., Woman's Medical College (Balt.), 1890. *Pathology.*

FRANK B. CROSS. Brooklyn, N. Y.
M. D., Columbia University, 1900. *Medicine.*

HOWARD R. DUDGEON. Galveston, Texas.
M. D., University of Texas, 1899. *Genito-Urinary Surgery.*

FRED WALLACE DUNCAN. Coffeyville, Kan.
M. D., Washington University, 1906. *Clinical Microscopy and Gynecology.*

HARLAN L. ERWIN. Dalton, Ga.
M. D., University of Maryland, 1904. *Gynecology.*

HUGH D. HAMILTON. Kansas City, Mo.
M. D., Missouri Medical College, 1898. *Medicine.*

EDWARD A. HANSKE. Bellevue, Ia.
M. D., Louisville Medical College, 1901. *Medicine.*

CLAYTON K. HASKELL. Bath, N. Y.
M. D., Albany Medical College, 1901. *Gynecology.*

EDWIN C. HENRY. Omaha, Neb.
M. D., Medico-chirurgical Coll. (Phila.), 1896. *Medicine.*

HOUSTON B. HIATT. Asheboro, N. C.
M. D., University of Maryland, 1907. *Medicine.*

WILLIAM G. C. HILL. Sisterville, Mo.
M. D., College of Physicians and Surgeons (Balt.). *Medicine.*

J. MORRISON HUTCHESON. Richmond, Va.
M. D., Medical College of Virginia, 1909. *Clinical Microscopy.*

NICHOLAS C. IKNAYAN. Charleston, Ill.
M. D., Northwestern University, 1896. *Medicine.*

ELI FRANKLIN IRWIN. Weston, Ont.
M. B., Toronto University, 1890. *Medicine.*

BURNLEY LANKFORD. Norfolk, Va.
M. D., University of Virginia, 1903. *Gynecology.*

DANIEL I. LEATHERMAN. Thurmont.
M. D., College of Physicians and Surgeons (Balt.), 1886. *Gynecology.*

KATE W. LEATHERMAN. Thurmont.
M. D., Woman's Medical College (Phila.), 1895. *Gynecology and Clinical Microscopy.*

LUTHER C. NEILL. Birmingham, Ala.
M. D., Columbian University, 1904. *Medicine.*

ALBINUS POOLE. Fairmont, W. Va.
M. D., University of Maryland, 1900. *Medicine.*

JOHN S. POOLE. Neepawa, Man.
M. D. C. M., Manitoba University, 1899. *Gynecology.*

WILLIAM A. SELMAN. Atlanta, Ga.
M. D., Atlanta College of Physicians and Surgeons, 1902. *Medicine.*

WILLIAM S. SMITH. Baltimore.
M. D., University of Maryland, 1883. *Gynecology.*

JOSEPH H. WESLEY. New Market, Ont.
M. D., Toronto University, 1891. Medicine.

WENZEL M. WOCHOS. Kewaunee, Wis.
M. D., College of Physicians and Surgeons (Chicago), 1903. *Medicine.*

IRVIN S. WORKMAN. Mt. Vernon, Ohio.
M. D., Western Reserve University, 1903. *Medicine.*

WILLIAM B. YOUNG. Rock Hall, S. C.
M. D., Medical College of South Carolina, 1904. *Medicine.*

UNDERGRADUATE STUDENTS

MATRICULATES

HERMAN S. APPLEBAUM. Baltimore. 1714 *Fairmount Av.*
Baltimore City College. *Group V.* Professor Wilson, *Adviser.*

ALBERT AUNÉ. Baltimore. 222 *N. Carrollton Av.*
Nashotah Seminary, Wisconsin. *Group I.* Professor Spieker, *Adviser.*

DONALD KNIPP BELT. Baltimore. 613 *Reservoir St.*
Baltimore City College. *Group V.* Professor Armstrong, *Adviser.*

BERTRAM BENEDICT. Baltimore. 2409 *Madison Av.*
Baltimore City College. *Group III.* Professor Greene, *Adviser.*

LINGURN BURKHEAD BOBBITT. Baltimore. 706 *E. Twentieth St.*
Baltimore City College. *Group I.* Professor Mustard, *Adviser.*

WILLIAM LUMSDEN BOND. Baltimore.
Boys' Latin School. *Group IV.* Professor Bliss, *Adviser.*

LEO BRADY. Baltimore. 804 *St. Paul St.*
Boys' Latin School. *Group III.* Dr. Magoffin, *Adviser.*

VICTOR H. BRIDGMAN, JR. Baltimore County. *Woodbrook.*
Baltimore City College. *Group V.* Professor Bliss, *Adviser.*

LOUIS MAX BRODIE. Baltimore. 2337 *Druid Hill Av.*
Baltimore City College. *Group V.* Dr. Roulston, *Adviser.*

WILLIAM NORMAN BROWN. Baltimore. 1125 *Harlem Av.*
Hiram College. *Group I.* Dr. Roulston, *Adviser.*

LESLIE HEPBURN BUCKLER. Baltimore. *The Severn.*
Boys' Latin School. *Group II.* Professor Armstrong, *Adviser.*

HARRY CLARK BURGAN. Baltimore. 509 *New Boundary Av.*
Mr. Wolfe's School; LL. B., University of Maryland, 1905. *Group III.* Professor Vincent, *Adviser.*

JOHN KUPER BURGAN. Baltimore. 509 *New Boundary Av.*
Mr. Wolfe's School. *Group III.* Professor Vincent, *Adviser.*

SAMUEL MOSES BURKA. Baltimore. 1009 *Pennsylvania Av.*
Baltimore City College. *Group V.* Professor Marden, *Adviser.*

JOHN DUDLEY CARROLL. Baltimore. 1700 *N. Charles St.*
Mr. Wolfe's School. *Group IV.* Dr. Coble, *Adviser.*

PAUL OWENS CARTER. Baltimore. 756 *W. Fayette St.*
Baltimore City College. *Group V.* Professor Watson, *Adviser.*

ROBERT ALLEN CASTLEMAN, JR. Howard County. *Elkridge.*
Baltimore City College. *Group I.* Professor Spieker, *Adviser.*

BERTRAM HARRY CATZEN. Baltimore. 1917 *Eutaw Place.*
The Deichmann School. *Group III.* Professor Ballagh, *Adviser.*

HORACE HALL CHALMERS. Baltimore. 416 *W. Hoffman St.*
William and Mary College. *Group I.* Professor Spieker, *Adviser.*

LESTER A. CHICKERING. Baltimore. 1303 *W. Lanvale St.*
The Deichmann School. *Group V.* Professor Swartz, *Adviser.*

EDMUND BRODIE CLARY. Baltimore. 1221 *Madison Av.*
Baltimore City College. *Group V.* Professor Mathews, *Adviser.*

MAURICE HENRY COBLENTZ. Baltimore. 410 *N. Calhoun St*
Baltimore City College. *Group IV.* Professor Mustard, *Adviser.*

RICHARD G. COBLENTZ. Baltimore. 410 *N. Calhoun St.*
Baltimore City College. *Group V.* Professor Mathews, *Adviser.*

SIMON COHEN. Baltimore. 1709 *Linden Av*
Friends' School. *Group I.* Professor Spieker, *Adviser.*

HARRY NORMAN COLE. Richmond, Va. 1714 *McCulloh*
Baltimore City College. *Group III.* Professor Greene, *Adviser.*

HENRY EVANS CORNER. Baltimore County. *Roland*
Boys' Latin School. *Group III.* Professor Wilson, *Adviser.*

JAMES JOHNSON CORNER, JR. Baltimore. 202 *E. Ch*
Country School for Boys. *Group III.* Professor Mustard, *Adviser.*

FRANCIS A. DAVIS. Baltimore. 1701 *P*
Boys' Latin School. *Group I.* Professor Robinson, *Adviser.*

ALLEN DICKEY. Baltimore. 603 *Cat*
University School. *Group III.* Professor Ballagh, *Adviser.*

HARRY STANLEY DICKEY. Baltimore. 603 *C*
University School. *Group III.* Professor Shaw, *Adviser.*

JOHN SHARPE DICKINSON. Baltimore County,
Boys' Latin School. *Group III.* Professor Miller, *Advis*

EDMOND SHEPPARD DONOHO. Baltimore. 92
Baltimore City College. *Group III.* Dr. Magoffin, *Adv*

JOHN LANAHAN DORSEY. Baltimore.
Jefferson School. *Group V.* Professor Shaw, *Adviser.*

HAMILTON GRAHAM DUBOIS. Baltimore.
Baltimore City College. *Group III.* Professor H.

JAMES W. EASTER. Baltimore C
Boys' Latin School. *Group IV.* Professor Ames

CHARLES ELLIS ELLICOTT, JR. Baltimore
Baltimore City College. *Group IV.* Professor

DANIEL STANLEY ELLIOTT. Baltimor
Baltimore City College. *Group IV.* Profess

EDWIN LOUIS FREDERICK. Baltim
Baltimore City College. *Group V.* Dr. G

GEORGE WILLIAM GAIL. Balt
Jefferson School. *Group IV.* Professo

WALTER FREDERICK GEISSEL. B
Baltimore City College. *Group V.*

CHARLES LELAND GETZ.
Baltimore City College. *Group II.*

LAWRENCE GETZ. Baltimore. 1111 *W. Lanvale St.*
Baltimore City College. *Group V.* Professor Renouf, *Adviser.*

GEORGE MARTIN GILLET, JR. Baltimore. 219 *W. Monument St.*
Baltimore City College. *Group III.* Dr. Magoffin, *Adviser.*

ALBERT ROLAND GMINDER. Baltimore. 607 *Lennox St.*
Baltimore City College. *Group III.* Dr. Roulston, *Adviser.*

CALVIN HOOKER GODDARD. Baltimore. *The Walbert.*
Boys' Latin School. *Group IV.* Professor Coble, *Adviser.*

ARTHUR FEDDEMAN GORTON. Baltimore. 2403 *Garrison Av.*
Baltimore City College. *Group V.* Dr. Coble, *Adviser.*

ELMER LEWIS GREENSFELDER. Baltimore. 1811 *Eutaw Place.*
Baltimore City College. *Group V.* Dr. Gilpin, *Adviser.*

WALTER EDWARD GREMPLER. Baltimore. 517 *Scott St.*
Baltimore City College. *Group V.* Professor Wilson, *Adviser.*

WILLIAM ARTHUR GRUSE. Wheeling, W. Va. 409 *Park Av.*
Mt. St. Joseph's College. *Group V.* Dr. Gilpin, *Adviser.*

FREDERICK A. HAHN. Baltimore. 1944 *W. Pratt St.*
Baltimore City College. *Group II.* Professor Shaw, *Adviser.*

ALBERT LANPHIER HAMMOND. Baltimore. 2315 *Maryland Av.*
Baltimore City College. *Group III.* Professor Greene, *Adviser.*

GEORGE E. W. HARDY, JR. Baltimore. 3045 *W. North Av.*
Baltimore City College. *Group V.* Professor Renouf, *Adviser.*

WILLIAM EDWARD HARRISON, JR. Baltimore. 2121 *W. North Av.*
Baltimore City College. *Group III.* Professor Ballagh, *Adviser.*

ALFRED CUMMINS HATCH. Baltimore County. *Lutherville.*
Baltimore Polytechnic Institute; LL. B., University of Maryland. *Group I.* Professor Spieker, *Adviser.*

NATHAN WILLIAMS HAYNES. New York, N. Y. 1220 *Mt. Royal Av.*
Cutler School (N. Y.); Private Instruction. *Group V.* Dr. French, *Adviser.*

HAROLD BROOKS HERING. Baltimore. 416 *Mosher St.*
Baltimore City College. *Group II.* Dr. Kurrelmeyer, *Adviser.*

NATHAN BERNARD HERMAN. Baltimore. 1815 *Eutaw Place.*
Baltimore City College. *Group V.* Dr. Kurrelmeyer, *Adviser.*

FRANK MERRILL HILDEBRANDT. Baltimore. 516 *N. Stricker St.*
Baltimore Polytechnic Institute. *Group V.* Professor Wilson, *Adviser.*

GUY TILGHMAN ORME HOLLYDAY. Baltimore. 714 *Frederick Av.*
Boys' Latin School. *Group V.* Dr. Gilpin, *Adviser.*

JAMES EUGENE LEVERING HOLMES. Baltimore. 1308 *Linden Av.*
Country School for Boys. *Group I.* Professor Wilson, *Adviser.*

MARION BYRD HOPKINS. Baltimore. 1531 *Linden Av.*
Baltimore City College. *Group V.* Dr. Cowles, *Adviser.*

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Western High School, 1897. *Mathematics II.*

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Western High School, 1906. *Mathematics II.*

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Maryland State Normal School, 1903. *English Composition.*

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Western High School, 1894. *Chemistry.*

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Bryn Mawr School, 1894. *French.*

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Höhere Töchter Schule (Berlin), 1887. *English Composition; French.*

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English Composition.

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Goucher College. *Biology.*

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A. B., Goucher College, 1899. *French.*

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Maryland State Normal School, 1898. *English Composition.*

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Western High School, 1893. *History.*

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Western High School, 1893. *English Literature.*

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Eastern High School, 1881. *English Composition.*

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EDWARD REISLER. Baltimore. 3407 *Walbrook Av.*
A. M., Western Maryland College, 1880. *Education.*

LULA MCDOWELL RICHARDSON. Baltimore. 1102 *Brentwood Av.*
Eastern High School, 1908. *History.*

PHILIP LIGHTFOOT ROBB. Baltimore. 124 *W. Lafayette Av.*
S. B., Maryland Agricultural College, 1898. *Education.*

MAUD STANARD ROSS. Baltimore. 1508 *McCulloh St.*
Eastern High School, 1884. *English Literature.*

EDNA ROTHHOLZ. Baltimore. 2108 *Bolton St.*
Goucher College. *French.*

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Baltimore City College, 1904. *English Composition.*

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Maryland State Normal School, 1899. *English Composition.*

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Eastern High School, 1899. *German.*

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A. B., Vassar College, 1883; M. D., University of Zürich, 1890. *French.*

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Western High School, 1874. *Mathematics I.*

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Western High School, 1902. *Mathematics II.*

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Western High School, 1900. *Mathematics II.*

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IVY VERDILLA YEAKEL. Baltimore. 1734 *Harford Av.*
Eastern High School, 1906. *English Composition.*

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GOVERNMENT OF THE UNIVERSITY

FOR THE YEAR 1910-11

TRUSTEES

The Trustees are the ultimate source of authority in all matters pertaining to the University. They act collectively, through the standing committees named on page 2, and through the President of the University.

PRESIDENT

Ira Remsen

The duties of this office were thus defined by the Trustees. September 14, 1876:

The President of the University is the authorized means of communication between the Board and various officers of instruction and administration employed in the University; it shall be his duty to consult with the Professors in respect to the development of their various departments and the general interests of the University; to determine the appropriate duties of the Associates and Fellows; and to exercise such superintendence over the buildings, apparatus, books and other property as will insure their protection and appropriate use. In respect to these matters and all others which concern the welfare of the University, he shall consult frequently with the Executive Committee, and he shall attend the meetings of the Board of Trustees. Purchases, alterations, repairs, and other incidental expenses must not be ordered by any of the officers of the University without his previous assent or the expressed authority of the Board.

By resolution of the Trustees, May 2, 1892, the President of the University was constituted a member *ex officio* of the Board, and also *ex officio* a member of the Executive Committee.

ACADEMIC COUNCIL

Ira Remsen (*Pres.*)	E. H. Griffin (*Sec'y.*)	J. S. Ames
B. L. Gildersleeve	Henry Wood	Maurice Bloomfield
Paul Haupt	W. B. Clark	J. W. Bright
W. H. Welch		

By authority of the Trustees, the Academic Council (now consisting of the President and nine Professors) has met since the organization of the University to guide the various departments of study, to select the Fellows, and to act upon such other matters as may be brought before them.

BOARD OF UNIVERSITY STUDIES

Ira Remsen (*Pres.*)	J. H. Hollander	B. E. Livingston
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Paul Haupt	H. C. Jones	A. O. Lovejoy
W. H. Welch	J. M. Vincent	J. B. Whitehead
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Frank Morley	E. A. Andrews	A. B. Coble
H. F. Reid	E. C. Armstrong	J. E. Shaw
R. W. Wood	Christopher Johnston	L. A. Terracher
K. F. Smith		

By request of the Academic Council (October 8, 1883), this Board, consisting of the President and thirty-three Professors and eleven Associate Professors, has charge of the arrangements for the instruction of graduate students, and of the examination for the degree of Doctor of Philosophy.

ADVISORY BOARD OF THE MEDICAL FACULTY

Ira Remsen (*Pres.*)	H. A. Kelly	J. W. Williams (*Dean*)
W. H. Welch	F. P. Mall	L. F. Barker
H. M. Hurd	J. J. Abel	C. von Pirquet
W. S. Halsted	W. H. Howell	A. Meyer

This Board was constituted by resolution of the Trustees (April 3, 1893), "to report to the Trustees from time to time their suggestions, and to prepare and carry forward the proper arrangements for the instruction and graduation of medical students."

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F. H. Baetjer	C. D. Snyder	W. L. Moss
E. Hurdon	J. T. Geraghty	

This Board was created by resolution of the Trustees, January 6, 1902. It consists of the professors, clinical professors, associate professors, and associates in the medical department, and its functions are especially the consideration of the courses of instruction.

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By request of the Academic Council (May 13, 1892), the Board of Collegiate Studies, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduate and special students, and conducts the examination for matriculation and for the baccalaureate degree, under the direction of the Academic Council. The other teachers of undergraduates may be called in from time to time to consult.

An Executive Committee acts for the Board on all routine matters, and now consists of E. H. Griffin, E. Renouf, E. H. Spieker, and R. T. Abercrombie.

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T. R. Ball (*Registrar*)

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W. Graham Boyce*

Registrar of the University
Thomas R. Ball

Registrar of the Medical School
George J. Coy

*Mr. Charles J. Meyer, Treasurer for thirty-four years, resigned the office May 1, 1911.

SUMMARY

Faculty, 1910–11

President and Professors,	54
Clinical Professors,	7
Associate Professors,	30
Associates,	42
Instructors and Assistants,	67
	193
Lecturers for the year,	22

Students Enrolled, 1910-11

Graduate Students:		
Fellows by Courtesy,	19	
Fellows,	21	
Other Graduate Students in Philosophy	121	
Attendants on Single Courses,	49	
Candidates for the degree of M. D.,	351	
Physicians attending Special Courses,*	67	
		628
Undergraduates:		
Candidates for the degree of A. B.,	180	
Not candidates for a degree,	10	
		190
Total,		818
Counted twice,		3
Attendants on College Courses for Teachers,		101

*Including 34 entering in 1910 after the issue of the last Register.

PUBLICATIONS ISSUED AT THE JOHNS HOPKINS UNIVERSITY

I. American Journal of Mathematics

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. Professor Frank Morley is now the editor. Thirty-two volumes of about 400 pages each have been issued, and the thirty-third is in progress. It appears quarterly. Subscription $5 per year (foreign postage 50 cents). Single numbers $1.50. A few complete sets remain, which will be sold for $125 per set.

II. American Chemical Journal.

This journal was commenced in 1879, with Professor Remsen as editor. Forty-four volumes have been issued, and the forty-fifth is in progress. This journal appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year (foreign postage 50 cents). Single numbers 50 cents.

III. American Journal of Philology.

The publication of this journal commenced in 1880 under the editorial direction of Professor Gildersleeve. Thirty-one volumes of about 500 pages each have been issued, and the thirty-second is in progress. It appears four times yearly. Subscription $3 per volume (foreign postage 50 cents). Single numbers $1. A few complete sets remain. These sets have for the present been reduced to $63 for the thirty-one volumes.

IV. Studies in Historical and Political Science.

The publication of these papers was begun in 1882, under the editorial direction of Professor H. B. Adams. The series is now under the direction of the departments of History, Political Economy, and Political Science. Twenty-eight series are now completed, and the twenty-ninth series is in progress. A number of extra volumes have also been issued. Subscription $3 per volume (foreign postage 50 cents). The set of twenty-eight regular series will be sold for $100.

V. Memoirs from the Biological Laboratory.

These monographs were issued under the editorial direction of Professor W. K. Brooks. Five volumes have appeared.

VI. Johns Hopkins University Circular, including the Annual Register, President's Report, and Medical Department Catalogue.

The publication of the Circular began in December, 1879, and 234 numbers have since been issued. It appears monthly, from October to July. Subscription $1 per year.

VII. Contributions to Assyriology and Semitic Philology.

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Berlin, are the editors. Volume VIII is in progress.

VIII. Reprint of Economic Tracts.

Professor J. H. Hollander, editor. Third series in progress. Subscription $2.

IX. The Johns Hopkins Hospital Reports.

These reports are edited by the Medical Faculty of the University, and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume XVII is in progress. Subscription $5 per volume (foreign postage 50 cents). The set of sixteen volumes will be sold for ninety dollars.

X. The Johns Hopkins Hospital Bulletin.

The publication of this bulletin began in 1889. It is published monthly. Volume XXII is in progress. Subscription $2 per year (foreign postage 50 cents). The set of twenty-one volumes will be sold for $90.

XI. Modern Language Notes.

This journal is edited by E. C. Armstrong, J. W. Bright, H. Collitz, and C. C. Marden (managing editor). It appears eight times yearly. The twenty-sixth volume is in progress. Price $1.50 per year (foreign postage 25 cents).

XII. American Journal of Insanity.

This journal is under the direction of a Board of Editors. It appears quarterly. The sixty-seventh volume is in progress. Subscription $5 per year (foreign postage 50 cents).

XIII. Terrestrial Magnetism and Atmospheric Electricity.

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume XVI is in progress. Subscription $2.50 per year (foreign postage 25 cents). The set of fifteen volumes will be sold for $40.

XIV. Reports of the Maryland Geological Survey.

These reports are under the editorial direction of Professor William B. Clark, Director of the Survey.

XV. Reports of the Maryland Weather Service.

These reports are under the direction of Professor William B. Clark, Director of the Service.

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I. The Treasurer's Office is open daily from 9 a. m. to 4 p. m.

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1910

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DOCTOR OF MEDICINE

1909

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Arthur James Wiesender, A. B. Ripon 1905.

Gustav Herman Woltereck, A. B. 1905.—Asst. Phys. Md. Penitentiary, and Physician, Balt.

Walter Simrall Wyatt, S. B. Alabama 1904, and M. S. 1905.—Med. Interne, Lakeside Hosp. Cleveland.

Iva Catherine Youmans, A. B. Converse 1897.—Interne, N. Y. Infirmary for Women and Children. (53)

1910

Mary Dayton Allen, A. B. Mt. Holyoke 1905.—Res. House Officer.

Edward McPherson Armstrong, A. B. Princeton 1904; Rhodes Scholar, Oxford 1905-08, and B. Sc. 1908.—Surg. House Officer, New York Hosp.

Moses Haven Baker, S. B. Purdue 1905.—Interne, St. Francis Hosp. Pittsburg.

Henry Gray Barbour, A. B. Trinity (Conn.) 1906.—Fellow in Pathology.

Emil Boehm, S. B. St. Louis Univ. 1906.—Res. Clin. Pathologist, Bellevue Hosp. N. Y.

William Symington Bole, S. B. Montana Agric. 1906.—Physician, Bozeman, Mont.

Carl Ferdinand Bookwalter, S. B. Purdue 1900.—Asst. Res. Surg. N. Y. Eye and Ear Infirmary.

Ethan Flagg Butler, A. B. Princeton 1906.

Walter Austin Calihan, A. B. Rochester 1906.—Asst. Res. Surgeon, St. Agnes Hospital, Balt.

Ross Stagg Carter, A. B. Stanford 1905.—Physician, San Diego, Cal.

Thomas Rodney Chambers, A. B. 1906.—Interne, Mercy Hosp. Balt.

Joseph Lynn Choate, A. B. Stanford 1906; A. M Southern Cal. 1907.—Instr. Med. Dept. Univ. Southern Cal. Los Angeles.

Claude Carr Cody, Jr. A. B. Southwestern 1904.—Interne, Bellevue Hosp. N. Y.

Haskett Lynch Conner, A. B. De Pauw 1906.—Interne, Church Home and Infirmary, Balt.

Henry Theodore Collenberg, A. B. 1906.—Physician, Balt.

Henry Nicholas Costello, A. B. Yale 1906.—Interne, Hartford Hosp. Conn.

Walter Edward Dandy, A. B. Missouri 1907.—Asst. Surgery, Hunterian Lab.

Clinton Demas Deming, A. B. Yale. 1907.—Asst. Pathol.

Bernard Solomon Denzer, A. B. Columbia 1906.—Interne, German Hosp. N. Y.

Thomas Alan Devan, S. B. Rutgers 1906.—Interne, Presbyterian Hos. N. Y.

Baruch Mordecai Edlavitch, A. B. 1906.—Res. Pathol. Hebrew Hosp. Balt.

Ralph Landis Engle, A. B. Lebanon Valley Coll. 1905; A. M. Yale 1906.—Interne, Bellevue Hosp. N. Y.

Horace Burnett Fenton, A. B. Oregon 1906.—Asst. Phys. County Hosp. Portland, Ore.

Edgar L. Gilcreest, A. B. Texas 1906.—Interne, Lakeside Hosp. Cleveland.

Hyman Ginsberg, A. B. Georgia 1906.—Interne, Lane Hosp. San Francisco.

Lemuel Whittington Gorham, A. B. Yale 1906.—Res. House Officer.

William Lawrence Grimes, S. B. North Carolina 1906.—Interne, Union Prot: Infirmary, Balt.

Crowell Clarinton Hall, Jr. A. B. Bowdoin 1906.—Dover, Me.

Runkle Fisher Hegeman, A. B. Princeton 1906.—Res. House Officer.

Henry Gildersleeve Jarvis, A. B. Yale 1906.—Interne Hartford Hosp. Conn.

Albert Eugene Johann, A. B. Christian 1906.—Interne, Boston Children's Hosp.

Samuel Laban Ledbetter, Jr. S. B. Alabama 1906.—Interne, Lakeside Hosp. Cleveland.

Ralph Herman Major, A. B. William Jewell 1902.—Res. House Officer.

Albert Francis Mattice, S. B. South Dakota Agric. 1904; Ph. G. Washington State Coll. 1906.—Interne, German Hospital, N. Y.

Sydney Robotham Miller, S. B. New York Univ. 1905.—Res. House Officer.

Dana Elbra Monroe, A. B. Texas 1906.—Interne, Nursery & Child's Hosp. N. Y.

Raymond Bartlett Morris, A. B. Yale 1907.—

Angus Washburn Morrison, A. B. Yale 1906.—Interne, Royal Victoria Hosp. Montreal.

Douglass Howell Morse, S. B. California 1907.—Res. House Officer.

James Craig Neel, Ph. B. Marietta 1906.—Res. House Officer.

William Bradford Newcomb, A. B. William and Mary 1906.—Interne, New York Hosp. N. Y.
Firmadge King Nichols, A. B. 1906. —Res. Phys. St. Agnes Hosp. Balt.
Samuel Timothy Nicholson, Jr. A. B. North Carolina 1906.—Interne, Telfair Hosp. Savannah, Ga.
Willey Highby Norton, A. B. Ohio Univ. 1906.—Interne, Lakeside Hosp. Cleveland.
Thomas Grover Orr, A. B. Missouri 1907.—House Officer, Hudson St. Hosp. N. Y.
Jean Paul Pratt, A. B. Ohio State 1906.—Res. House Officer.
Chesney Macauley Ramage, S. B. West Va. Univ. 1907.—Physician, Fairmont, W. Va.
Robert Lewis Rhodes, A. B. Emory 1906.—Res. Surg. Jefferson Surg. Hosp. Roanoke, Va.
Harry Hungate Robinson, A. B. Michigan 1907.—House Phys. St. Elizabeth's Hosp. Elizabeth, N. J.
Walter Black Rogers, A. B. Wash. and Jefferson 1906.—Interne, St. Francis Hosp. Pittsburg.
Alice Rohde, S. B. Chicago 1903.—Mary Putnam Jacobi Fellow, Berlin, Germany.
James Wendel Rosenfeld, A. B. Stanford 1906.—Europe.
Raymond Sanderson, S. B. Princeton 1905. — Interne, Clifton Springs Sanitarium, N. Y.
Raphael Eustace Semmes, Jr. A. B. Missouri 1907.—Res. House Officer.
Herbert Milford Senseny, A. B. Adelbert 1906.—Interne, Milwaukee County Hosp. Wauwatosa, Wis.
John William Sheetz, Ph. B. Franklin and Marshall 1906.—Interne, St. Francis Hosp. Pittsburg.
Henry Augustus Stephenson, A. B. Randolph-Macon 1906. — Res. House Officer.
Howard Lester Taylor, A. B. Oberlin 1906.—Interne, Lakeside Hosp. Cleveland.
William Lawson Thornton, S. B. Ala. Polytech. 1903.—Interne, Union Prot. Infirmary, Balt.
Thomas Palmer Tredway, A. B. Western Md. 1906.—Interne, Adrian Hosp. Punxsutawney, Pa.
Arthur deTalma Valk, A. B. St. John's 1906.—Res. House Officer.
Herbert Francis Vanorden, Ph. B. Yale 1907.—Interne, Kansas City Gen. Hosp. Mo.
Clyde Emil Watson, S. B. West Va. 1905. — Interne, Merritt Hosp. Oakland, Cal.
Helen Watson, A. B. Wellesley 1905. —Res. House Officer.
Milton Weinberg, A. B. South Carolina 1906.—Asst. Dir. Rural Sanitation for So. Carolina, Manning.
Theodore Henry Wenning, A. B. St. Xavier 1904.—Interne, Roosevelt Hosp. N. Y.
Miley Barton Wesson, Jr. S. B. Texas 1902.—Interne, Hudson St. Hosp. N. Y.
James Harvey Whitcraft, S. B. Wooster 1905.—Interne, Kansas City Hosp. Mo.
Luke V. Zartman, A. B. Ohio State 1906.—Interne, Woman's Hosp.

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Master of Arts

1909

John Francis Cremen, A. B. 1905.—Baltimore.
Joseph Townsend England, A. B. 1902; LL. B. Univ. of Md. 1906. —Atty.-at-Law, Balt.
William Howard Gahan, A. B. Loyola 1905; LL. B. Univ. of Md. 1908.—Atty.-at-Law, Balt.
Walter Oscar McIntire, A. B. Wooster 1898.—Inst. Damaguete, P. I.

(4)

1910

Frank Gottlob Breyer, A. B. 1908.—Chemist., Palmerton, Pa.
William Stuart Gorton (F), A. B. 1908.—Fellow, Physics.
John B. Lalime A. B., Laval 1900. —Instr. Physics and Math. St. Mary's Coll., Montreal.

(3)

Bachelor of Arts

1909

James Baily.—Baltimore.
George William Bishop.—Med. Student.
John Merryman Black.—Cockeysville, Md.
Isidor Blum.—Law Student, Columbia.
Nathaniel Hawley Brush.—Med. Student.

Samuel Claggett Chew, Jr. (F).—Fellow, English.
George Washington Corner, 3d.—Med. Student.
Harry Vail Deale.—Student, Drew Theol. Sem., Madison, N. J.
Allan Herbert Fisher.—Law Student, Univ. of Md.
Samuel Fredman.—Student, Jewish Theol. Sem. N. Y.
Henry Warren Frey.—New York.
Edward Percy Guerard, Jr.
Leo Julius Gutman.—Baltimore.
Harry Kellogg Hardcastle.—Westinghouse Elec. Co., E. Pittsburg, Pa.
Alfred Boucsein Haupt.—Instr. Balt. Polytech. Inst.
Oliver Baker Hopkins.—Grad. Stud.
Albert David Hutzler.—Baltimore.
Walter Vincent Johnson.—Univ. Scholar.
Robert Glynn Lowndes.—Law Student, Univ. of Md.
William Hennick Martin.—Student, Mass. Inst. Tech.
William Howard Michael.—Med. Student.
Herbert Levy Moses.—Baltimore.
John Newman Numsen.—Baltimore.
George Franklin Onion.—Baltimore.
Robert Milton Overbeck.—Baltimore.
James Hamilton Owens.—Law Student, Univ. of Md.
William Edward Pearce, Jr.—Grad. Student.
Franklin Burche Pedrick.—Student, Homeopath. Med. Coll. N. Y.
Harold L. Russell.—Student of Forestry, Yale.
*Frank Saiontz. **January* 13, 1910.
Philip Schneeberger.—Grad. Student.
Frederick Janney Smith.—Med. Student.
Warren Adams Stewart.—Law Student, Univ. of Md.
Martillus H. Todd.—Med. Student.
Benjamin Francis Weems, Jr.
Franklin Pierce Whitcraft, Jr.—Baltimore.
William Z. White.—Baltimore.

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1910

Otis Herbert Draper.—Student, Drew Theol. Sem., Madison, N. J.
Raymond Fon Dersmith Gable.—York, Pa.
John Mallory Holmes.—Grad. Student; Sec. Y. M. C. A.
Carl Henry Levan.—Westinghouse Lamp Co., Bloomfield, N. J.
Norman Clyde Marvel.—Med. Student.
Austin Ralph Middleton.—Grad. Student.
Francis Key Murray.—Student of Law, Univ. of Md.
Aaron Robinson.—Med. Student.
Gilbert White Rosenthal.—Grad. Student.
George Ross Veazey.—Grad. Student; Student of Law, Univ. of Md.
August Vogeler.—Baltimore.
Benjamin Franklin Wallis.—Grad. Student.
Theodore Sinclair Will.—Student, Va. Theol. Sem., Alexandria.
Alan Churchill Woods.—Med. Student.

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LIBRARIES

1. THE UNIVERSITY LIBRARY numbers 155,624 bound volumes, selected with special reference to the instruction here given. It is arranged in several collections, of which these are the chief:

General Reference	Semitic
History	Sanskrit
Economics	Modern Languages
Political Science	McCoy Art Library
Mathematics and Physics	Medicine
Chemistry	Physiology and Anatomy
Biology	Philosophy, Psychology, and
Geology	Education.
Classics	

The reference library and reading room is open daily from 9 a. m. to 6 p. m.; the other rooms in accordance with special regulations.

The library receives the publications of the leading scientific societies of the world and the chief literary and scientific periodicals. The whole number of serials received exceeds twenty-three hundred. The list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) approaches three thousand. Important books are received by the library as soon as published, by purchase or by the courtesy of dealers.

2. THE PEABODY LIBRARY is a choice collection of books purchased since 1861. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 181,000 volumes, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a. m. to 10.30 p. m.

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4. THE MARYLAND HISTORICAL SOCIETY LIBRARY contains 43,669 volumes of historical works and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (83,000 volumes), the Bar Library (31,000 volumes), the Medical and Chirurgical Library (25,000 volumes), the Maryland Diocesan Library (30,000 volumes).

6. Washington is so near that its museums and libraries may be easily visited. Among the chief institutions of interest to students are these:

The Library of Congress,
The Smithsonian Institution and National Museum,
The Army Medical and Surgical Museum and Library,
The U. S. Coast and Geodetic Survey,
The U. S. Geological Survey,
The U. S. Naval Observatory,
The Libraries of the Departments and Bureaus,
The Corcoran Art Gallery.

PUBLICATIONS ISSUED AT THE JOHNS HOPKINS UNIVERSITY

I. American Journal of Mathematics

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. Professor Frank Morley is now the editor. Thirty-two volumes of about 400 pages each have been issued, and the thirty-third is in progress. It appears quarterly. Subscription $5 per year (foreign postage 50 cents). Single numbers $1.50. A few complete sets remain, which will be sold for $125 per set.

II. American Chemical Journal.

This journal was commenced in 1879, with Professor Remsen as editor. Forty-four volumes have been issued, and the forty-fifth is in progress. This journal appears monthly. Two volumes of six numbers and of about 500 pages each are issued yearly. Subscription $5 per year (foreign postage 50 cents). Single numbers 50 cents.

III. American Journal of Philology.

The publication of this journal commenced in 1880 under the editorial direction of Professor Gildersleeve. Thirty-one volumes of about 500 pages each have been issued, and the thirty-second is in progress. It appears four times yearly. Subscription $3 per volume (foreign postage 50 cents). Single numbers $1. A few complete sets remain. These sets have for the present been reduced to $63 for the thirty-one volumes.

IV. Studies in Historical and Political Science.

The publication of these papers was begun in 1882, under the editorial direction of Professor H. B. Adams. The series is now under the direction of the departments of History, Political Economy, and Political Science. Twenty-eight series are now completed, and the twenty-ninth series is in progress. A number of extra volumes have also been issued. Subscription $3 per volume (foreign postage 50 cents). The set of twenty-eight regular series will be sold for $100.

V. Memoirs from the Biological Laboratory.

These monographs were issued under the editorial direction of Professor W. K. Brooks. Five volumes have appeared.

VI. Johns Hopkins University Circular, including the Annual Register, President's Report, and Medical Department Catalogue.

The publication of the Circular began in December, 1879, and 234 numbers have since been issued. It appears monthly, from October to July. Subscription $1 per year.

VII. Contributions to Assyriology and Semitic Philology.

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Berlin, are the editors. Volume VIII is in progress.

VIII. Reprint of Economic Tracts.

Professor J. H. Hollander, editor. Third series in progress. Subscription $2.

IX. The Johns Hopkins Hospital Reports.

These reports are edited by the Medical Faculty of the University, and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume XVII is in progress. Subscription $5 per volume (foreign postage 50 cents). The set of sixteen volumes will be sold for ninety dollars.

X. The Johns Hopkins Hospital Bulletin.

The publication of this bulletin began in 1889. It is published monthly. Volume XXII is in progress. Subscription $2 per year (foreign postage 50 cents). The set of twenty-one volumes will be sold for $90.

XI. Modern Language Notes.

This journal is edited by E. C. Armstrong, J. W. Bright, H. Collitz, and C. C. Marden (managing editor). It appears eight times yearly. The twenty-sixth volume is in progress. Price $1.50 per year (foreign postage 25 cents).

XII. American Journal of Insanity.

This journal is under the direction of a Board of Editors. It appears quarterly. The sixty-seventh volume is in progress. Subscription $5 per year (foreign postage 50 cents).

XIII. Terrestrial Magnetism and Atmospheric Electricity.

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume XVI is in progress. Subscription $2.50 per year (foreign postage 25 cents). The set of fifteen volumes will be sold for $40.

XIV. Reports of the Maryland Geological Survey.

These reports are under the editorial direction of Professor William B. Clark, Director of the Survey.

XV. Reports of the Maryland Weather Service.

These reports are under the direction of Professor William B. Clark, Director of the Service.

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Some of the principal separate publications issued by the Johns Hopkins Press are:

THE PHYSICAL PAPERS OF HENRY A. ROWLAND. 716 pages, royal octavo. $7.50.

BALTIMORE LECTURES ON MOLECULAR DYNAMICS AND THE WAVE THEORY OF LIGHT. By Lord Kelvin. 716 pages, 8vo. $4.50.

PHOTOGRAPHIC REPRODUCTION OF THE KASHMIRIAN ATHARVA-VEDA. Edited by Professor Bloomfield. 3 vols., folio. $50.

STUDIES IN HONOR OF BASIL L. GILDERSLEEVE. 527 pages, 8vo. $6.00.

PHOTOGRAPHS OF THE NORMAL SOLAR SPECTRUM. By H. A. Rowland. Set of ten plates, $25.

A NEW CRITICAL EDITION OF THE HEBREW TEXT OF THE OLD TESTAMENT. By Paul Haupt. Prospectus on application.

SELECTIONS FROM THE EARLY SCOTTISH POETS. By William Hand Browne. 240 pages, 12mo. $1.25.

A MONOGRAPH OF THE GENUS SALPA. By W. K. Brooks. 400 pages and 57 plates, 4to. $7.50.

FINANCIAL HISTORY OF BALTIMORE. By J. H. Hollander. 400 pages, 8vo. $2.00.

CUBA AND INTERNATIONAL RELATIONS. By J. M. Callahan. 503 pages, 8vo. $3.00.

THE ADOPTION OF THE FOURTEENTH AMENDMENT. By Horace Edgar Flack. 286 pages, 8vo. $2.00.

THE REVISION AND AMENDMENT OF STATE CONSTITUTIONS. By Walter Fairleigh Dodd. 368 pages, 8vo. $2.00.

AMERICAN DIPLOMACY UNDER TYLER AND POLK. By Jesse S. Reeves. 335 pages, 12mo. $1.50.

INTERNATIONAL LAW AND DIPLOMACY OF THE SPANISH-AMERICAN WAR. By E. J. Benton. 300 pages, 12mo. $1.50.

BRITISH INTERESTS AND ACTIVITIES IN TEXAS, 1838–1846. By Ephraim D. Adams. 264 pages, 12mo. $1.50.

THE AMERICAN WORKMAN. By E. Levasseur. (Translation.) 540 pages, 8vo. $3.00.

POEMA DE FERNAN GONÇALEZ. Critical text by C. Carroll Marden. 274 pages, 8vo. $2.50.

THE TAILL OF RAUF COILYEAR. Edited by William Hand Browne. 164 pages, 8vo. $1.00.

ECCLESIASTES. A New Metrical Translation. By Paul Haupt. 50 pages, 8vo. 50 cents.

NAHUM. A New Metrical Translation. By Paul Haupt. 53 pages, 8vo. 50 cents.

THE OYSTER. By William K. Brooks. 25 pages with 16 plates, 12mo. $1.00.

ANCIENT SINOPE. By David M. Robinson. 112 pages, 8vo. $1.00.

NOTES ON STAHL'S SYNTAX OF THE GREEK VERB. By Basil L. Gildersleeve. 65 pages, 8vo. 50 cents.

THE HAGUE PEACE CONFERENCES OF 1899 AND 1907. By James Brown Scott. Vol. I, *The Conferences*, 887 pages, 8vo.; Vol. II, *Documents*, 548 pages, 8vo. $5.00.

BIBLIOGRAPHIA HOPKINSIENSIS. A list of publications by members of the university.

DISSERTATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE JOHNS HOPKINS UNIVERSITY.

REGULATIONS OF THE TREASURER'S OFFICE

I. The Treasurer's Office is open daily from 9 a. m. to 4 p. m.

II. All bills should be presented at that place, endorsed as correct by the person under whose authority the expense has been incurred.

III. No member of the academic staff is allowed to incur a bill in the name of the University, unless authority is given for the same by the Trustees, in advance, either as an item in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. Orders for books and apparatus to be imported from Europe will not be considered authorized, unless countersigned by the President or the Treasurer of the University.

All goods must be consigned to and addressed "The Johns Hopkins University, Baltimore, Md." Goods for other parties (societies or individuals) must not be included in the university cases. Invoices, sworn to before the U. S. Consul, must be sent by mail, and a duplicate invoice by the following mail, both addressed to The Johns Hopkins University.

Unless otherwise ordered, goods from Europe should be sent as follows:

From Germany by the North German Lloyd steamers sailing for Baltimore from Bremen; from England by steamship lines from Liverpool to Baltimore; from France and Italy, via Havre and Liverpool.

Printed copies of instructions to shippers, which can be obtained at the Treasurer's Office, should in all cases be enclosed with the orders.

V. The Treasurer's Office will make purchases, at wholesale rates, of supplies which are required for the current needs of the University.

VI. Such pass books as are authorized by the Treasurer should be presented for balance and settlement every month.

VII. The wages of all persons employed by the University will be paid at the Treasurer's Office.

VIII. When C. O. D. packages are expected, previous arrangements should be made for their reception.

IX. Outlays made for individuals (express parcels, postage, telegraph messages, etc.) should be settled at once.

X. An annual allowance is made by the Trustees, in the budget, for such expenses as they approve, and in deciding on the items they are governed by a consideration of the general interests of the University, as well as by the needs of special branches of instruction. Balances to the debit or credit of any account are carried forward to the new account at the opening of each financial year (September 1). A statement of the amount of the balance and of any additional appropriation will be communicated to the parties severally interested, if requested, after the Trustees' meeting in October.

SCIENTIFIC SOCIETIES

1. The Scientific Association, meeting monthly, under the presidency of Professor H. C. Jones.

2. The Philological Association, meeting monthly, under the presidency of Professor Gildersleeve.

3. The Historical and Political Science Association, meeting fortnightly.

4. Naturalists' Field Club, which makes weekly excursions during the spring and autumn and holds monthly meetings for the presentation and discussion of papers.

There are also companies which meet weekly in the laboratories for the reading of the scientific journals, and seminaries in several departments of study.

GENERAL STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION

The Johns Hopkins University has had in view, from the beginning, two main objects,—the advancement of learning through investigations conducted by its teachers and its properly qualified students, and the communication of learning through carefully-planned courses of instruction. The facilities which it provides and its methods of administration are intended both for the encouragement of research, in the case of those competent to undertake it, and for the discipline and guidance of those whose chief concern is the acquisition of knowledge. The work of the University is carried forward—

I. Under the Faculty of Philosophy.

II. Under the Faculty of Medicine.

The students enrolled under the Faculty of Philosophy are:

(1) Those who have obtained baccalaureate degrees from colleges of good standing, and desire to follow advanced courses in scientific, literary, or historical subjects; and also persons who wish to take advantage of the opportunities for individual investigations here afforded. Women who have received baccalaureate degrees are admitted to *graduate* courses with the consent of the professors under whom they wish to work.

(2) Undergraduate students, who are, in most cases, looking forward to the degree of Bachelor of Arts, but some of whom are engaged in special studies without reference to graduation. Women are not admitted to the regular undergraduate courses.

The requirements for admission to the undergraduate courses, the arrangement of these courses in the several "Groups," etc., are stated on pages 183-207. More detailed information is given in "The Collegiate Instruction of the Johns Hopkins University," which may be obtained on application, personally or by letter, to the Registrar of the University.

(3) Teachers in public and private schools wishing to pursue courses similar in character to the corresponding courses given in the collegiate department of this University. Work accomplished in these courses will be credited, under suitable regulations, toward the degree of Bachelor of Arts. Under a plan of co-operation with Goucher College, of Baltimore, women are admitted to these courses.

Detailed information is given in the special announcement of "College Courses for Teachers."

(4) Persons seeking opportunities for instruction during the summer session, with or without reference to an academic degree. Men and women are admitted to such courses as they are found by the respective instructors qualified to pursue with advantage.

Detailed information is given in the special announcement of the Summer Session.

The students enrolled under the Faculty of Medicine are:

(1) Candidates for the degree of Doctor of Medicine. These must be college graduates, or must give evidence by examination that they possess the attainments indicated by a baccalaureate degree in arts or sciences. Women are admitted on the same terms as men.

(2) Doctors of Medicine desiring to pursue certain special courses, which are annually announced.

The terms of admission to the medical department and the general plan of instruction are briefly stated on pages 209-216. Detailed information is given in the "Catalogue and Announcement," which will be sent upon application to the Registrar of the department.

I. FACULTY OF PHILOSOPHY

Advanced students are received whether they are candidates for a degree or not, and they are permitted to attend such lectures and exercises as they may select. On entering the university they are expected to present their diplomas and certificates from the institutions with which they have been connected, and also letters of introduction. They are not examined by the university for admission, but each instructor satisfies himself of the attainments of those who wish to follow his guidance, before admitting them to his classes.

The professors are ready to give personal counsel to those who seek it; books and instruments adapted to investigation and advanced work have been liberally provided; seminaries limited to a few advanced students have been organized in various subjects; societies devoted to philology, to mathematical, physical, and natural science, and to history and political science, afford opportunities for the presentation of memoirs and original communications, and there are also conferences for the reading and discussion of philological, philosophical, biological, physical, geological, and chemical papers; during the year courses of lectures are given by resident and non-resident professors on topics to which they have given special attention; the libraries of the Peabody Institute and Maryland Historical Society, founded for the benefit of scholars, are easily accessible; the issuing, under the auspices of the Trustees, of publications devoted to mathematics, chemistry, philology, biology, the modern languages, and history, brings the university into advantageous connection with other foundations; and the university reading room, which is constantly open, is liberally supplied with new and standard books and with the literary and scientific journals of this and other lands.

Instruction is carried on in the different departments by methods which vary with the nature of the subject and the character and proficiency of the scholars; but in all alike the end is the same,—that, while the students are becoming familiar with the work prosecuted and the results attained elsewhere, and are adding to their general intellectual culture, they may be encouraged to become independent and original investigators in their chosen fields of labor. Within reasonable limits the university will provide such books, apparatus, and material as may be requisite for this purpose.

The principal subjects in which advanced instruction is now provided are these:

Mathematics.
Physics and Astronomy.
Chemistry.
Geology and Mineralogy.
Zoology.
Botany.
Physiology.
Pathology.
Greek.
Latin.
Classical Archæology and Art.
Sanskrit and Comparative Philology.
Semitic Languages.
Anglo-Saxon and English.
Romance Languages.
German.
Germanic Philology.
History.
Political Economy.
Political Science.
Philosophy, Psychology, and Education.

MATHEMATICS

The advanced courses are so arranged that a qualified student gets in three years the more important points of view of the whole subject. The courses are elastic in character, subjects being introduced as they are needed. In general, the plan pursued is to foster independent inquiry on the part of the student. Once embarked on investigation, he uses all the apparatus of lectures and library with intelligent purpose. The seminary, which meets weekly, is primarily intended for the presentation of the results of the student's own thinking. Literature either intrinsically important or opportune is presented and discussed in the reading class, which also meets weekly.

ADVANCED COURSES

1. Mathematical Seminary.
One hour weekly. Professor MORLEY.

2. Reading Class.
One hour weekly. Professor MORLEY.

3. Higher Geometry.
Three hours weekly, first half-year. Professor MORLEY.
This is a general course in Geometry, covering in three years such matters as Projective Geometry, the Invariants of algebraic forms, Line Geometry, Conformal Geometry, Geometry on an algebraic curve or surface.

4. Theory of Functions.
Three hours weekly, second half-year. Professor MORLEY.
Algebraic Functions and their integrals; Elliptic, elliptic modular, and general automorphic functions; Theory of the potential.

5*. Dynamics.
Two hours weekly, first half-year (every other year). Professor MORLEY.
Special stress is laid on Rigid Dynamics.

---

*Courses thus marked will *not* be given in 1911-12.

6. Vector Analysis.
Two hours weekly, first half-year (every other year). Professor MORLEY.

7. Elementary Theory of Functions.
Two hours weekly, through the year. Dr. COHEN.
An introduction to the theories of functions of a real and a complex variable.

8. Differential Equations.
Two hours weekly, through the year. Dr. COHEN.
Including, in three years, Ordinary Differential Equations, their integral curves and singular points; Partial Differential Equations; Lie's theory.

9. Differential Geometry.
Two hours weekly, through the year. Dr. COHEN.
Including a study of Curves in space; Surfaces and lines upon them; Spherical representation; Applicability of surfaces.

10*. Calculus of Variations.
Two hours weekly, one half-year. Dr. COHEN.

11*. Theory of Numbers.
Two hours weekly, one half-year. Dr. COHEN.

12. Theory of Groups.
Two hours weekly. Associate Professor COBLE.
Including Theory of Equations, Finite Geometries, Theory of algebraic forms.

13. Theory of Correspondence.
Two hours weekly. Associate Professor COBLE.
Including such matters as Cremona Transformations, general birational transformations.

14*. Theory of Probability.
Two hours weekly, one half-year. Associate Professor COBLE.
Including the applications to statistics and the Theory of Errors.

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*Courses thus marked will *not* be given in 1911-12.

UNDERGRADUATE COURSES

1. Solid Geometry; Algebra (special topics).
Three hours weekly, first half-year. Professor HULBURT.
Plane Analytic Geometry.
Three hours weekly, second half-year. Professor HULBURT.
Conference.
Two hours weekly, through the year.

2. Differential and Integral Calculus.
Three hours weekly, through the year. Professor HULBURT.
Conference.
Two hours weekly, through the year.

3. Differential Equations; Calculus (special topics).
Three hours weekly, through the year. Dr. COHEN.
Conference.
Two hours weekly, through the year.

4. Projective Geometry.
Three hours weekly, first half-year. Associate Professor COBLE.
Descriptive Geometry.
Three hours weekly, second half-year. Associate Professor COBLE.
Conference.
Two hours weekly, through the year.

In connection with the three hours' class-room instruction, the instructor in each course meets his students weekly in a two-hour session, for the purpose of supplementary explanation and application of the principles taught in the class-room. This is the part of each course designated as "Conference." It is not intended thus to increase the amount of work required of the student, but rather to aid him in the understanding and preparation of the work of the class.

Physics and Astronomy

The Physical Laboratory offers facilities in the form of apparatus, libraries, and machine shops to students who wish to pursue experimental investigations in any field of Physics. If the results of these are to be offered as a dissertation for the degree of Doctor of Philosophy, the work must be done under the general direction of the Director of the Laboratory, or of one of the other professors. For students carrying on experimental researches the laboratory is open daily, except Saturdays, from 9 a. m. until 5 p. m., and on Saturdays from 9 a. m. until 1 p. m.

Regular courses of instruction in both Physics and Astronomy are given in the form of lectures and laboratory exercises. They may be classified as Advanced and Elementary. The former are designed primarily for graduate students; the latter, for undergraduates.

Advanced Courses

Seminary and Journal Meetings

All advanced students meet with the instructors twice each week,—once in the Physical Seminary, and once for the discussion of the current Physical Journals.

During the year 1911-12 the questions to be considered in the Seminary will refer to the history of the development of Electrical Theories.

Lectures

1. General Physics. Professor Ames.
Four hours weekly, through the year.

This is a course of lectures in Mathematical Physics continuing for three years and including the subjects of Theoretical Mechanics, Elasticity, Hydrodynamics, Sound,

Thermodynamics, Heat Conduction, Electricity and Magnetism, and Light. During the year 1911-12 the lectures will be on Electricity.

2. Selected Problems in Advanced Physical Optics. Professor WOOD.
Three hours weekly, through the year.

3. Applied Electricity. Professor WHITEHEAD.
Two hours weekly, through the year.

4. Applied Electricity (*Advanced Course*). Professor WHITEHEAD.
Two hours weekly, through the year.

5. Celestial Mechanics. Dr. J. A. ANDERSON.
Two hours weekly, through the year.

6*. General Astronomy. Dr. J. A. ANDERSON.
Three hours weekly, through the year. (*See 6 below.*)

7. Theory of Optical Instruments and Spectroscopy. Dr. A. H. PFUND.
Two hours weekly, first half-year.

Laboratory Courses

1. Special Exercises in Physics in preparation for independent research, under the direction of Professors AMES, WOOD, BLISS, and WHITEHEAD, and Dr. PFUND.

2. Applied Electricity. Professor WHITEHEAD.

3. Use of Astronomical and Astrophysical Instruments. Dr. J. A. ANDERSON.

For students following these courses the laboratory is open daily, except Saturdays, from 9 a. m. to 5 p. m.; the observatory is open every favorable night.

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*This course may be chosen as an elective by undergraduates.

ELEMENTARY COURSES

1. Elements of Physics.

Three hours weekly, through the year. Professor AMES and Dr. PFUND.

This course of lectures is based upon Ames's "Text-book of General Physics," and is intended to include the field of Physics in an elementary manner. It presupposes a knowledge of the elements of plane trigonometry. Course 4 of laboratory work (see below) is arranged to accompany these lectures.

2 *and* 3. The four following series of lectures are given each year and are combined, together with the corresponding laboratory work (see Physics 5 below), into two courses known as Physics 2 and Physics 3. The mode of combination varies from year to year according to the needs of the students applying.

(*a*) Elementary Theoretical Mechanics.

Three hours weekly, twelve to fifteen weeks. Professor BLISS.

This course is designed to serve as an introduction to Mathematical Physics, and students following it must have a knowledge of the elements of the Calculus.

(*b*) Elementary Electricity and Magnetism.

Three hours weekly, fifteen to twenty weeks. Professor BLISS.

This is an introduction to the mathematical theory of the electrostatic and magnetic fields and electric currents. Course "*a*" or an equivalent preparation is assumed.

(*c*) Elementary Thermodynamics.

Three hours weekly, twelve to fifteen weeks. Professor BLISS.

The object of this course is to familiarize the student with the fundamental ideas of Thermodynamics, such as Temperature, Entropy, and Reversibility. By way of illustration applications are made to very elementary problems in heat engines, solutions, and electrochemistry, so far as time will permit. Course "*a*" or an equivalent preparation is assumed.

(*d*) Physical Optics.

Three hours weekly, fifteen weeks. Dr. PFUND.

This course is a moderately advanced treatment of the subject of optics, special emphasis being laid on interference, diffraction, polarization, and their application to modern instruments of high efficiency.

4. Laboratory Work for Beginners.

Two afternoons weekly, through the year. Professor BLISS and Assistants.

In this elementary work the students are taught methods of exact observation and measurement, and, so far as possible, they study the fundamental phenomena of Physics in a quantitative manner. The exercises given in Ames and Bliss's "Manual of Experiments in Physics" serve as a basis for this work.

5. Laboratory Work, in connection with Physics 2 and 3.

To complete each of these courses the student is required to pursue two of the four following groups, making together two afternoons a week for the year.

(*a*) Mechanics.

Two afternoons weekly, twelve weeks. Professor BLISS.

In this course the students are taught methods of exact measurement of time, length, and mass, and methods for the determination of the various mechanical and elastic constants.

(*b*) Electricity and Magnetism.

Two afternoons weekly, twenty weeks. Professor BLISS.

Special attention is given to instruction in modern methods of measurement of various electrical quantities and in the use of improved apparatus. Those qualified and desiring such instruction may substitute work with dynamos, motors, and transformers for part of the course.

(*c*) Heat.

Two afternoons weekly, one half-year. Professor BLISS.

This includes methods of measuring temperature, including the use of thermocouples, resistance thermometers and pyrometers, together with other exercises illustrating lecture course "*c*" above.

(*d*) Optics.

Two afternoons weekly, one half-year. Dr. PFUND.

The students are given a thorough working knowledge of experiments dealing with fundamental principles, as well as of experiments involving the use of modern types of optical instruments, such as the plane and concave grating, Michelson and Fabry and Perot interferometers, polarimeters, etc.

6. General Astronomy.

Three hours weekly, through the year. Dr. ANDERSON.

The theory of astronomical instruments and observations will be outlined (based on Young's "General Astronomy"), a general treatment of spherical astronomy and the elements of celestial mechanics will be given, together with as much physical astronomy as time will permit. The students will spend one evening per week throughout the year in the observatory, where instruction in the actual use of instruments will be given.

7. Elements of Applied Electricity.

Two hours of lectures and five hours in laboratory weekly, through the year. Professor WHITEHEAD and Assistant.

This course is designed to meet the needs of graduate students in other departments than Physics, who wish to become familiar with the simple principles of Applied Electricity. It is not open to undergraduate students.

CHEMISTRY

The Chemical Laboratory is equipped with apparatus for nearly all kinds of scientific chemical investigations, and it is the policy of the department to provide every needed facility for promising investigations of a special or unusual character.

The laboratory is open daily, except Saturdays, from 9 a. m. until 5 p. m., and on Saturdays from 9 a. m. until 1 p. m.

ADVANCED COURSES

I. *Journal Meetings*

These meetings are held at 9 a. m. on Mondays, throughout the year, and are under the direction of Professor REMSEN. Toward the end of the year, those who have been engaged in research give an account of the progress of their investigations.

II. *Lectures*

(*a*) ORGANIC CHEMISTRY

The lectures in Organic Chemistry are given by Professor REMSEN and Associate Professor ACREE. The course consists of two lectures weekly and extends over two years.

(*b*) INORGANIC CHEMISTRY

The course on this subject is given by Professor RENOUF. It consists of one lecture weekly and extends over three years.

(*c*) PHYSICAL CHEMISTRY

Three lectures weekly are given throughout the year by Professor JONES.

(*d*) SPECIAL TOPICS IN CHEMISTRY

A short course of lectures upon Radioactivity and the electrical nature of matter is given each year by Professor JONES.

III. *Laboratory Courses*

(*a*) QUALITATIVE ANALYSIS

This course is under the direction of Professor RENOUF, and is designed to meet the needs of those graduate students whose knowledge of the subject is defective.

(*b*) QUANTITATIVE CHEMISTRY

This work is under the direction of Professor MORSE.

(*c*) PHYSICAL-CHEMICAL METHODS

The routine work in this branch usually occupies about six weeks and is under the direction of Professor JONES.

(*d*) ORGANIC PREPARATIONS

This work is done under the direction of Associate Professor ACREE. The required work occupies from eight to twelve weeks.

The student who is a candidate for the degree of Doctor of Philosophy, must give evidence by means of a series of written examinations that he has a satisfactory knowledge of elementary chemistry and is familiar with laboratory methods, before he is permitted to undertake the advanced courses. These consist of lectures, and laboratory exercises in (*b*) quantitative chemistry, (*c*) physical-chemical methods, and (*d*) organic preparations.

The order in which these are taken is not fixed, but is arranged with reference to the convenience of the student.

Having completed the routine work of the laboratory, and having given the required proofs of sufficient knowledge of his subject, the student is assigned by the director of the laboratory to one of the staff who proposes to him a problem for investigation, which may be made the basis of the Doctor's dissertation,* and who thenceforth directs his work in the laboratory. It sometimes happens that the student has sound reasons for preferring some particular line of research, and this course is allowed if the circumstances permit.

For those who do not look forward to the degree, the rules are less rigid. Any person admitted to the University as a special student is permitted to take any of the laboratory or lecture courses for which he is qualified by previous training. The department also provides laboratory facilities for experienced chemists who wish to come to it for the purpose of carrying out researches of their own.

UNDERGRADUATE COURSES

1. Introduction to General Chemistry.

(*a*) *Lectures and recitations, three hours weekly, through the year.* Professor RENOUF.

(*b*) *Laboratory work, six hours weekly, through the year.* Professor RENOUF, Dr. GILPIN, and assistants.

No previous knowledge of chemistry is required. The class-room work is based on Remsen's Chemistry (Briefer Course) and covers the field of inorganic chemistry, as far as possible. The last twelve class-room exercises give a brief sketch of organic chemistry, particularly for the benefit of those students whose study of chemistry is confined to the first-year course. In the laboratory the student repeats the experiments performed in the class-room, and, in addition, has some practice in simple quantitative analysis and in making inorganic preparations. Each student is required to keep a notebook of his work.

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*The length of time required for the completion of the dissertation work cannot be definitely stated, but, as a rule, from one year to one and one-half years should be allowed for it in the plans of the candidate.

2. Advanced Inorganic Chemistry and Qualitative Analysis.

(*a*) *Lectures and recitations, three hours weekly, through the year.* Dr. GILPIN.

(*b*) *Laboratory work, six hours weekly, through the year.* Professor RENOUF, Dr. GILPIN, and assistants.

The class-room work in the second year is intended to give a more thorough knowledge of chemical and physical-chemical laws, of the properties of chemical compounds, and of the principles of qualitative analysis. The laboratory work is in qualitative analysis and inorganic preparations.

3. Chemistry of the Compounds of Carbon.

(*a*) *Lectures and recitations, three hours weekly, through the year.* Dr. GILPIN.

(*b*) *Laboratory work, six hours weekly, through the year.* Professor RENOUF, Dr. GILPIN and assistants.

The class-room work of the third year is devoted to the study of Organic Chemistry. The laboratory work is the making of organic preparations, but also includes practice in the analytic detection of organic substances and in analytical methods of value to those intending to study medicine. The text-book used is Remsen's Organic Chemistry.

This course is open only to those who have completed Courses 1 and 2.

4. Laboratory Work only.

Laboratory work, six hours weekly, through the year. Professor RENOUF, Dr. GILPIN, and assistants.

The laboratory work comprises advanced qualitative analysis, including technical methods, difficult inorganic preparations, and assaying. Those contemplating graduate work in chemistry will devote half of the year to the study of Volhard and Zimmermann's "Experiments in General Chemistry;" others may substitute quantitative analysis.

Students of the fifth group whose principal subject is chemistry are required to pursue the courses in chemistry during the first, second, and third years. Those who look forward to the study of medicine are advised to follow the courses in the first and second years, and to take the course in the compounds of carbon in their last year of residence.

The fourth-year course is intended for those students only who have satisfactorily absolved the courses of the

three preceding years. It will be a help to those who intend to follow graduate work in chemistry, and also to those who desire to make a practical use of their knowledge of chemistry after receiving the bachelor's degree.

Geology

The Geological Laboratory offers facilities in the form of collections, instruments, and libraries to students wishing to pursue special researches in geology and its allied subjects—paleontology, petrography, mineralogy, etc. Such researches may be carried on independently, or with the co-operation of the members of the geological staff; but, if the student intends to become a candidate for a degree, the work must be conducted under the general direction of the head of the department or of his associates.

The laboratory, collections, and libraries are open to the advanced students daily, from 9 a. m. until 5 p. m.

Regular courses of instruction in geology are given in the form of lectures, laboratory exercises, and field work. The advanced courses are adapted to the requirements of students of maturity, the general courses to students desiring an elementary or cultural training in the subject. The former are designed primarily for graduate students in geology; the latter for undergraduates or for students from other departments wishing a more general knowledge of the subject.

ADVANCED COURSES

Seminary and Journal Meetings

The advanced students meet with the instructors once each week for the discussion of current publications dealing with geology. During the latter half of the year

papers are presented giving the results of researches conducted in the laboratory, or summarizing the present state of knowledge regarding geological questions of general interest.

Lectures

1. Historical Geology. Professor CLARK.
   Two hours weekly, through the year.
2. Sytematic Paleontology. Professor CLARK.
   Two hours weekly, through the year.
3. Economic Geology. Professor CLARK.
   Two hours weekly, through the year.
4. Geological Physics. Professor REID.
   Two hours weekly, through the year.
5. Exploratory Surveying. Professor REID.
   Two hours weekly, through the year.
6. Advanced Mineralogy. Professor MATHEWS.
   Three hours weekly, through the year.
7. Petrography. Professor MATHEWS.
   Three hours weekly, through the year.
8. Paleobotany. Mr. E. W. BERRY.
   Two hours weekly, first half-year.

Laboratory Courses

1. Paleontology. Professor CLARK and Mr. BERRY.
   Weekly, through the year.
2. Petrography. Professor MATHEWS.
   Weekly, through the year.
3. Advanced Mineralogy. Professor MATHEWS.
   Weekly, through the year.
4. Geological Field Methods. Professor MATHEWS.
   Weekly, during the fall and spring.

Laboratory studies in advanced courses are carried on daily from 9 a. m. until 5 p. m. under the general direction of the professors in charge, who are accessible at all times. An afternoon is devoted especially to each course, when the subject-matter is more fully developed by quizzes, demonstrations, etc.

UNDERGRADUATE COURSES

1. Elements of Geology.

Three lectures or recitations and three hours of laboratory work weekly, through the year. Associate Professor SWARTZ.

This course is open to all students. It is designed to give a general view of the subject of Geology, and may profitably be pursued by those who wish to have some knowledge of the chief events of the earth's history. It includes an account of the origin of the features of the surface of the earth, a discussion of the phenomena of earthquakes, volcanoes, mountain-making, and an outline of the past history of the earth.

Materials illustrative of the lectures are studied in the laboratory. Emphasis is placed upon the observation of geological phenomena in nature, the vicinity of Baltimore and the State of Maryland presenting features of unusual interest for such study. Frequent excursions are made to neighboring points where the principles of the science are studied in the field, while a longer trip is made in the spring to places of special interest for geological study. The longer excursion may be omitted by students who desire to do so, the field trips in the vicinity of Baltimore only being taken. This course is illustrated by maps, lantern views, and the rich collections of the University.

2. Mineralogy and Elementary Petrography.

PART I.—*Two lectures and four hours of laboratory work weekly, through the year.* Professor SWARTZ.

This course includes the study of crystallography, a discussion of the more important minerals, and a brief consideration of the origin and characteristics of the chief types of rocks. Numerous excursions are made to points of interest in the vicinity of Baltimore, which is unusually rich in the variety of its rocks and minerals.

Emphasis is laid upon laboratory work, which includes the study of crystal models, the identification of minerals by means of the blowpipe and by inspection, and the examination of rocks in the laboratory and in the field. A knowledge of chemistry is required for the pursuit of this course.

PART II.—*One lecture and two hours of laboratory work weekly, through the year.* Professor SWARTZ.

Part II is open to students who are pursuing Part I and who wish a more thorough knowledge of crystallography and mineralogy than is afforded by that course. It offers a more advanced discussion of those subjects, while a larger number of the more important minerals are studied in the laboratory.

3. Applied Geology.

Three hours weekly, through the year, with laboratory work. Professor MATHEWS.

This course is devoted to a discussion of the non-metallic minerals and rocks which are worked commercially. The knowledge of geology and mineralogy gained in the preceding courses is applied to the recognition of useful minerals, their mode of occurrence, properties, values, and uses. The main sources of coal, oil, clay, building-stones, abrasives, gems, etc., the way they are won, and their economic importance, are treated with more or less detail. The aim of the course is to supply such information regarding mineral resources as an educated man should possess. The treatment of the technical questions of metallurgy or mining must be sought in technical schools.

State Scientific Bureaus connected with the Department.—Two scientific bureaus, established by the legislature and maintained at the expense of the State, are carried on in connection with the geological department. They are the Maryland Geological and Economic Survey and the Maryland State Weather Service. Professor Clark is the director of both these organizations, which are concerned with a study of the geology and physical features of the State of Maryland. The work is carried on under his direction mainly by the instructors and students of the department. A State Forestry Bureau, of which Professor Clark is Executive Officer, is also located in one of the buildings of the geological department.

Advantages afforded by Proximity to Washington.—Washington is less than an hour distant from Baltimore. This renders it possible to take frequent advantage of the facilities afforded by that city, where the officers of the various scientific bureaus and societies give the students of the university every opportunity to examine the rich collections and libraries under their control.

Field Work.—The area of the State of Maryland includes, notwithstanding its comparatively small size, a remarkable sequence of geological formations. The ancient

rocks of the earth's crust, as well as those still in the process of deposition, are found, while between these wide limits there is hardly a geological epoch which is not represented. As a result most excellent facilities are afforded for a study of the various geological horizons. Excursions to points of interest are made during the autumn and spring months.

Zoology and Botany

The Biological Laboratory furnishes adequate rooms, with the usual apparatus, for carrying on research in animal and plant morphology, embryology, and experimental zoology. For special investigations unusual apparatus will be obtained.

It is planned that, before receiving the degree of Doctor of Philosophy, each student shall have the opportunity to study marine and terrestrial life in some tropical region. In the spring and summer of 1910 this work was carried on in Jamaica, West Indies.

A collection of living plants in the botanical garden and conservatory, a physiological laboratory in the latter, and propagating grounds nearby are available for morphological and experimental study. A collection of carefully "fixed" and preserved alcoholic material of several hundred species of plants is available for histological and developmental study. The herbaria of the laboratory include the Schimper collection of European seed plants, the Field Club collection of local plants, the Fitzgerald collection of mosses, and smaller collections of fungi, marine algae, and Jamaican plants.

The library in the laboratory is supplemented by the main library of the university and other libraries in the city, including the excellent botanical library of John Donnell Smith, whose courtesy has always made his library and herbarium available for advanced students.

Prompt publication of abstracts of results is provided for in the University Circular. From time to time the results of extensive investigations in zoology are published by the University Press in a series of illustrated quarto monographs. The Adam T. Bruce Fellowship is awarded to men capable of carrying on research in biology. One of the graduate students in zoology may be appointed each year to occupy the University table at the marine laboratory of the U. S. Fisheries Bureau, at Woods Holl, Mass.

The laboratories are open from 9 a. m. to 5 p. m., and for necessary research in the evenings, but only by special permission.

ADVANCED COURSES

I. *Zoology*

The advanced work in zoology is directed toward the development of investigators, and the student will receive such assistance and training toward that end as his individual needs seem to require. The set courses of the department are perhaps the less important part of that work. The courses in Zoology include: (1) Introductory and General Courses; (2) The study of the structure, morphology, classification and distribution of animals; (3) Study of the activities and functions of the developed organisms; (4) Study of the production of the structures and functions of the organism, in the history of the individual, and in the history of the race. The first two lines of work are provided in the Undergraduate Courses, and in many cases graduate students will find it well to follow certain of these. The third and fourth lines are provided for in the Advanced Courses. Any of the lines of work may lead directly to research, and such research will be carried on under the immediate oversight of the member of the staff in whose special field the problem falls. The later year or years of the candidate for the doctorate should be devoted to investigation, with

little distraction by attendance on set courses. As a rule the student presents before the members of the department at some time during his work a discussion of the subject with which his investigations deal, in the form of a number of lectures.

The Advanced Courses are elastic, subjects being dealt with that appear especially useful to the students taking part; different students may devote themselves primarily to diverse parts of the subject. In the latter part of each course as a rule some special subject or problem will be taken up by each student, leading directly to research.

Journal Club.—All graduate students take part with the instructors in a weekly discussion of the current literature.

Seminary.—Professors JENNINGS and ANDREWS. The instructors and advanced students meet once a week in the evening for the discussion of some of the fundamental problems of biology. Usually some book of philosophical trend is read and discussed. In recent years the seminary has taken up thus Driesch's Science and Philosophy of the Organism; Lloyd Morgan's The Interpretation of Nature; v. Uexkuell's Umwelt und Innenwelt der Tiere. In 1911-1912 it is proposed to take up Bergson's Creative Evolution.

Production of the Structures and Functions of Organisms.—Professor JENNINGS. Three lectures or conferences and two laboratory periods weekly from the beginning of the session till February 1.

This subject will be dealt with in two courses, to be given in alternate years, as follows:

(*a*) Genetics. The production of structures and functions in the history of the race. The changes in organisms as they pass from generation to generation; the experimental study of reproduction, heredity, variation and evolution. This course will be given in 1911-1912.

(*b*) Development of the Individual. The experimental and analytical study of the production of structures and functions in the development of the individual; "experimental embryology," regeneration and regulation. This course will not be given in 1911-1912.

General Physiology of Animals; Functions and Activities of Developed Organisms.—Associate Professor MAST. Three lectures or conferences and two laboratory periods weekly through the year.

This course deals with the chemical and physical properties of organisms, the relation between animals and their environment, and fundamental processes which occur in organisms: metabolism, growth, movement, response to stimuli, behavior.

The work will be confined largely to a general and comparative study of the life processes in the Invertebrates. Plants and the Vertebrates will be considered only in a general way, since they are fully dealt with in the department of Botany or in the department of Physiology of the Medical School. The second half-year will probably be devoted mainly to Animal Behavior. Problems for investigation may be taken up in this or in other lines.

The attention of students of zoology should be called to the courses on the behavior of higher animals, given in the psychological department by Professor WATSON.

II. *Botany*

1. Journal Club and Seminary.

a. The Journal Club meets weekly through the year, in conjunction with the Zoological Journal Club.

b. The Botanical Seminary meets twice weekly, from December 1 to May 1. Professor JOHNSON.

2. Lectures and Laboratory Work.

I. Reproduction and Phylogeny in Plants. Professor JOHNSON.

a. *Three lectures weekly through the year.*

b. *Laboratory work associated with the lectures, twice weekly through the year.*

c. *Definite problems in field work assigned for study in the autumn and spring.*

II. The Histology and Ecological Anatomy of Plants. Professor JOHNSON.

a. *Two lectures or conferences weekly from January* 1 *to April* 1.

b. *Laboratory work twice weekly from January* 1 *to April* 1.

III. The History of Botany. Professor JOHNSON.

Two lectures weekly from October 1 *to December* 20.

The following themes will be discussed in alternate years: The Theory of Sex in Plants; The Cell Theory.

IV. Plant Physiology. Professor LIVINGSTON.

Lectures and laboratory work on the chief plant processes. Green's Plant Physiology will be read. A good general knowledge of physics and chemistry is highly desirable.

a. *Three lectures or conferences weekly till February* 1.

b. *Six hours of laboratory work weekly till February* 1.

V. Physiology of the Cell. Professor LIVINGSTON.

An advanced course on protoplasmic processes, such as protoplasmic movement, the chemistry of nutrition and respiration, enzymes, etc.

a. *Two lectures weekly from February* 1 *to June* 1.

b. *Six hours of laboratory work weekly from February* 1 *to June* 1, *with reading of original articles.*

The laboratory work will aim to give the student illustrative material bearing on the subject as well as to bring him into contact with problems and methods of research, and will require the reading of selected original literature, much of it in French or German. Open to students who have had Course IV or its equivalent, or a similar course in animal physiology.

VI. Problems in Plant Physiology. Professor LIVINGSTON.

a. *Two lectures weekly through the year.*

b. *Six hours of laboratory work and a one-hour conference weekly throughout the year.*

This course plans to give perspective and to prepare the student for profitable research in either pure or applied physiology. Each student will carry on experimentation upon and will work up the

literature of restricted phases of plant activity, reporting on both literature and experiments. A considerable knowledge of the principles and methods of physics and chemistry is prerequisite.

UNDERGRADUATE COURSES

The collegiate courses in zoology and botany are known as Biology 1, Biology 2, Biology 3, and the Natural History Course.

1. General Biology and Embryology.

Six hours laboratory work and three lectures or other exercises weekly, through the year. Professor ANDREWS and assistants.

This introductory course is open to all students and may be taken without previous training in chemistry or physics. It may be taken profitably by students interested in political economy, history, psychology, or ethics; it will be found useful to those looking forward to the ministry; and it is required of all who are to enter the medical school.

(*a*) General Biology. [*Till March* 15.]

In the laboratory each student studies with the microscope, or dissects, selected animals and plants, from the more simple such as amoeba and yeast, to the more complex such as the fern and frog. In the lectures some of the fundamental facts of Biology are emphasized.

(*b*) Embryology. [*After March* 15.]

Each student studies the cleavage of the living frog's egg and the formation and transformation of the tadpole. Subsequently he studies the hen's egg and the formation of organs in the embryo chick, learning to make his own serial sections, etc.

2. Comparative Anatomy and Bacteriology.

Six hours of laboratory work and three lectures or other exercises weekly, through the year. Dr. COWLES.

This course continues the training of Biology 1 in limited fields, and is recommended to those who expect to study medicine, or to specialize in any department of Biology.

(*a*) Comparative Anatomy of Vertebrates. [*Till March* 15.]

The student dissects the skate, shark, codfish, necturus, turtle, alligator, pigeon, and dog. The lectures emphasize the principles of animal morphology.

(*b*) Bacteriology. [*After March* 15.]

The student learns the methods of handling, cultivating, and studying non-pathogenic bacteria. The practical work gives valuable training in careful laboratory methods. The lectures treat of bacteria from a biological point of view, as very important agents in natural processes.

3. Zoology and Botany.

Six hours of laboratory work and three lectures or other exercises weekly, through the year.

(*a*) Zoology. [First half-year.]

Professor ANDREWS and Dr. COWLES.

A comparative study of the chief groups of non-vertebrate animals. This may be made a whole course when botany is not needed.

(*b*) Botany. [Second half-year.]

Professors JOHNSON and LIVINGSTON.

The Structure of Root, Stem, Leaf, Flower, and Fruit. [*January to May.*]

An Introduction to Plant Physiology, with selected laboratory experiments. [*After May* 1.]

This is a course for beginners, giving a general survey of the nature and activities of plants, the out-door work serving to give students some familiarity with native plants in the field. This may be made a full course by those desiring it for general culture, or as a preparation for graduate work in botany or for work in forestry.

Elementary Zoology (Natural History.)

Nine hours weekly, second half-year. Associate Professor GRAVE.

This course is intended for those having no training in these subjects and is chiefly a laboratory course. It is required of students in Groups I, II, III.

PHYSIOLOGY

Facilities are offered in the Physiological Laboratory for special students, graduates in medicine and others, who are interested in special lines of investigation, and

also for those who wish to follow courses leading to the degree of Doctor of Philosophy in Physiology or allied subjects.

Regular courses of instruction are given as follows:

1. Journal Club. Professor HOWELL.

Weekly, through the year.

2. Physiology of the Animal Body. Professor HOWELL, Dr. HOOKER and Dr. SNYDER.

Lectures, three hours weekly, through the year; laboratory, twelve hours weekly, first trimester.

[The laboratory course may be repeated in the third trimester.]

3. Advanced Laboratory Work. Professor HOWELL.

This work is done individually.

GREEK

GREEK SEMINARY

Professor GILDERSLEEVE will conduct the Greek Seminary, the plan of which is based on the continuous study of some leading author or some special department of literature.

The Seminary consists of the Director, Fellows, and Scholars, and such advanced students as shall satisfy the Director of their fitness for an active participation in the work by an essay, a critical exercise, or some similar test of attainments and capacity. All graduate students, however, may have the privilege of attending the course.

During the next academic year the study of the *Greek Historians* will constitute the chief occupation of the members and Thukydides will be the centre of the work. There will be two meetings a week during the entire session. Especial attention will be paid to the development of historical style and method.

In connection with the Seminary there will be held a series of conferences on *Greek Historiography.*

The students should possess Herodotos, Thukydides, Xenophon, Polybios, Dionysios of Halikarnassos (rhetorical works), and Schäfer's Quellenkunde der griechishen Geschichte.

ADVANCED AND GRADUATE COURSES

1. Professor GILDERSLEEVE will also conduct a course of *Practical Exercises in Greek,* consisting chiefly in extemporaneous translation from Greek into English and English into Greek, two meetings a week from the beginning of the session to the first of January.

2. Notice of other courses is reserved.

Associate Professor MILLER will conduct the following courses:

1. Readings twice a week in Thukydides during the first half of the year.

2. Lectures and Practical Exercises in Greek Palæography, twice weekly during the latter half of the year.

3. Exercises in advanced Greek composition for the benefit of candidates for the degree of Doctor of Philosophy.

Dr. A. M. SOHO will conduct a course throughout the year in Modern Greek.

The object is to impart a practical knowledge of the language by reading standard authors and by conversation, upon which especial emphasis will be laid. During the second half-year a portion of the time will be devoted to the consideration of the phonetic and morphological laws which the modern language followed through its development from the classical Greek.

UNDERGRADUATE COURSES

1. Xenophon, *Memorabilia* (selections).
   Plato, *Apology.*
   Herodotus (selections).

   Three hours weekly, first year. Associate Professor MILLER.

   Prose Composition.

   One hour weekly, first year. Associate Professor MILLER.

   Private Reading: Plato, *Crito;* Homer, *Odyssey* (two books).

2. Andocides I; Lysias (selections).
   Euripides (one play).
   Prose Composition.

   Three hours weekly, second year. Associate Professor SPIEKER.

   Private Reading: Xenophon, *Hellenica* (book 1); Euripides (one play).

3. Plato, *Protagoras.*
   Lyric Poets.
   Sophocles (one play).
   Survey of Greek Literature.
   Prose Composition.

   Three hours weekly, third year. Associate Professor SPIEKER.

   Private Reading: Elegiac and Iambic Poets; Aeschylus (one play).

4. Thucydides (book VII).
   Aristophanes, *Frogs.*

   Two hours weekly, fourth year. Associate Professor SPIEKER.

   Greek Life: lectures and conferences.

   One hour weekly, fourth year. Dr. ROBINSON.

   Private Reading: Demosthenes (select orations); Aristophanes, *Clouds.*

Associate Professor SPIEKER offers, for beginners in Greek, a course of three hours weekly throughout the year. This course is intended primarily for the benefit of such graduate students of

language as may feel the need of a knowledge of Greek in the prosecution of their work; but undergraduate students who have the ministry in view, and who have not had any previous training in Greek, may also be admitted. The class will be advanced as rapidly as is consistent with thoroughness of work.

Latin

The most important organ of training is the Latin Seminary which meets twice a week throughout the year, under the direction of Professor Smith. It consists of the director, fellows, scholars, and such advanced students as shall give satisfactory proof of their ability and training. Any graduate student is at liberty to attend the Seminary exercises, but each regular member is required to take his turn in the work. Each year some author or group of authors in a given department of literature is made the centre of study. The subjects treated during the last three years are as follows:

1908-1909. The Roman Historians, especially Livy and Tacitus.
1909-1910. The Roman Epic, especially Vergil.
1910-1911. The Roman Drama, especially Plautus and Terence.

In addition to the regular work of the Seminary, courses of lectures are given every year by the director, and from time to time by other qualified persons.

During the academic year 1911-1912 the Seminary will be given to the Roman Satire, and the centre of this work will be Horace and Juvenal.

Students are requested to provide themselves with texts of Horace (ed. Wickham, Oxford Classical Text), Juvenal and Persius (ed. Owen, Oxford Classical Text), Petronius (ed. Buecheler, Berlin, Weidmann), and Apuleius. *Metamorphoses* (ed. Helm, Teubner Text).

ADVANCED AND GRADUATE COURSES

1.* Professor Smith will lecture on the Roman Satire once a week throughout the year.

2. During the first half-year he will hold a series of weekly conferences on the *Cena Trimalchionis* of Petronius.

3. During the second half-year he will lecture once a week on the *Metamorphoses* of Apuleius and will comment on selected portions of the text, more especially, the Story of Cupid and Psyche.

4.* Professor Wilson will lecture once a week throughout the year on Latin Epigraphy. The course will be accompanied by a series of practical exercises in the interpretation of inscriptions from original stones and from published texts.

5. The advanced students will meet once a week during the year for the rapid reading of Horace, Persius and Juvenal.

For Dr. Magoffin's courses in Greek and Roman History see the programme in History.

Notice of other courses is reserved.

UNDERGRADUATE COURSES

1. Livy (selections); Terence (one play): Vergil, *Bucolics;* Catullus (selections).

Three hours weekly, through the year. Professor MUSTARD.

Private Reading: Cicero, *Cato Maior;* Vergil, *Aeneid* (book VIII).

Prose Composition.

Weekly, through the year. Professor MUSTARD.

2. Tacitus, *Annals* (selections); Pliny's *Letters* (selections); Horace, *Odes* and *Epodes.*

Three hours weekly, through the year. Professor MUSTARD.

*This course will be given at an afternoon hour for the benefit of those who cannot attend in the forenoon.

Private Reading: Tacitus, *Germania;* Horace, *Satires* and *Epistles* (selections).

3. Lucretius (selections); Vergil, *Georgics;* Horace, *Ars Poetica.*

Two hours weekly, through the year. Professor MUSTARD.

Private Reading: Cicero, *First Tusculan;* Quintilian (book x).

Roman Literature (with reading of selected passages).

Weekly, through the year. Professor SMITH.

4. Juvenal (selections); Petronius (selections); Apuleius (selections).

Two hours weekly, through the year. Professor WILSON.

Private Reading: Martial (selections); Seneca's *Letters* (selections); Roman Elegy (selections).

Roman Life: lectures and conferences.

Weekly, through the year. Professor WILSON.

5. Advanced Latin Composition.

Weekly, through the year. Professor MUSTARD.

NOTE.—Courses 2, 3, and 4 may be taken only by those who have pursued the courses preceding them.

Roman Literature (Course 3) and Roman Life (Course 4), each one hour weekly, are open to all students, and taken together are counted as half a course.

CLASSICAL ARCHAEOLOGY AND ART

The work in Classical Archæology and Art is carried on by means of a Seminary, various courses of lectures, conferences with individual students and practical exercises in the museums. The archæological material in the possession of the university includes good collections of Greek and Roman inscriptions, marbles, bronzes, vases and other terracottas, coins, gems, etc., which not only serve the purpose of illustration, but also form the basis of original investigation. These are supplemented by squeezes, photographs, and lantern slides, as well as by the casts belonging to the university and to the Peabody Institute. The new Walters Gallery, which is not far from the university, contains a very valuable collection of Greek and Roman antiquities.

SEMINARY AND ADVANCED COURSES

The subjects treated in the Seminary, or presented in lectures, vary from year to year, so that in three or four years of continuous residence students are brought into contact with the most important of the ancient authors and with the principal fields of archæological research. These subjects include Greek and Roman architecture, epigraphy, private life, topography, sculpture, painting, ceramics, coinage, gems, bronzes, and the Etruscan and Mycenæan civilizations. The following courses are offered for the year 1911-12:

1. Archæological Seminary. Selected topics in the Latin Inscriptions. Professor WILSON.
Two hours weekly, first half-year.

2. Archæological Seminary. Selected topics in the Greek Inscriptions. Associate Professor ROBINSON.
Two hours weekly, second half-year.

NOTE.—The University collection contains nearly two hundred original inscriptions, extending in date from 500 B. C. to 500 A. D. These, together with casts, squeezes and other reproductions, furnish material for original investigation in this field.

3. The history of Ancient Roman Painting, with especial reference to interior decoration. Professor WILSON.
Weekly, second half-year.

4. The Topography and Monuments of Ancient Rome, with particular reference to the Roman Forum. Professor WILSON.
Weekly, through the year.

5.* An introduction to Latin Epigraphy, with practical exercises in the interpretation of inscriptions from original stones and published texts. Professor WILSON.
Weekly, through the year.

6. Life and Art in the Mycenæan Age and their relation to Homer. Associate Professor ROBINSON.
Weekly, first half-year.

7. Outlines of Greek Architecture. Associate Professor ROBINSON.

Weekly, second half-year.

8. Greek Epigraphy, with practical exercises in reading from squeezes and original stones. Associate Professor ROBINSON.

Weekly, first half-year.

9.* The history of Greek Sculpture. Associate Professor ROBINSON.

Weekly, through the year.

UNDERGRADUATE COURSES

1. Outlines of Classical Archæology; lectures and conferences.

Three hours weekly, through the year. Professor WILSON and Associate Professor ROBINSON.

This course is intended to furnish a rapid survey of the principal fields of Greek, Etruscan, and Roman archæology and art. Knowledge of Latin and Greek is not required.

2. The Private Life of the Romans.

Weekly, through the year. Professor WILSON.

3. The Private Life of the Greeks.

Weekly, through the year. Associate Professor ROBINSON.

Courses 2 and 3 are parts of Latin 4 and Greek 4, respectively, but may be pursued by any student of the University. Taken together they count as half a course, and with the course in Roman Literature (Latin 3) as a full course.

SANSKRIT AND COMPARATIVE PHILOLOGY

SLAVIC PHILOLOGY

Courses of instruction, directed by Professor Bloomfield, with the assistance of an Instructor or Fellow in Sanskrit, are provided in the Indo-Iranian languages

*This course will be given at a late hour in the afternoon for the benefit of those who are unable to attend in the morning.

(Vedic and Classical Sanskrit, Pāli and Prākrit, Avestan and Old Persian), in Comparative Grammar of the Indo-European languages, in historical Ethnology of the Indo-European peoples, and in general Linguistic Science. During recent sessions several courses in Lithuanian, one of the Balto-Slavic languages, were given, and last session Dr. Edgerton conducted a course in Russian. During the coming session courses in Old Bulgarian and Russian are offered by Dr. Edgerton; see the statement of these courses at the end of this rubric.

These courses aim to meet the wants of those who wish to devote themselves to the study of these branches exclusively and for their own sake, *i. e.*, those who wish to become specialists in Sanskrit Philology or Comparative Philology; and also the needs of students of languages in general, who wish to obtain a broader linguistic basis for special studies in other departments of philology.

The advanced work aims specially to meet the wants of those who wish to make Indian Philology or Comparative Philology their special study. This work centres in the Sanskrit Seminary and not infrequently involves the use of Sanskrit manuscripts.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Sanskrit Seminary for a half-year (one hour a week), is planned, so as to furnish a good knowledge of Classical Sanskrit, and to include an introduction into the dialect of the Vedas. This amount of work represents material sufficient for the first subsidiary subject for the degree of Doctor of Philosophy. A course in the same study for one and a half years, involving two hours a week, is the amount required for a second subsidiary subject leading to the same degree.

A synopsis of the courses offered during past years may be presented under the following heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology and the history of religions.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Indo-European accentuation; comparative study of Greek, Latin, Sanskrit, and Teutonic, including vocalism, consonantism, noun-formation, and inflections.

III. The Vedic, Sanskrit, and Prākrit dialects; Rig-Veda; Atharva-Veda; literature of the Brāhmanas and Upanishads. The law books of Manu and Yājñavalkya; the Drama Çakuntalā and introduction into Prākrit; Pañcatantra, Hitopadeça, Kathāsaritsāgara, and Nala. Sanskrit grammar and prose composition.

IV. The Pāli language and Buddhist literature.

V. The Avestan language and the sacred books of the Avesta.

VI. The Lithuanian language and literature; Russian language and literature.

The following courses, in charge of Professor Bloomfield, will be given during the session of 1911-1912:

A. *Linguistic Science and Comparative Grammar of the Indo-European Languages.*

1. The elements of Linguistic Science, with an account of the Ethnology and Religions of the Indo-European peoples. *Weekly, through the year.*

2. Comparative grammar of the more familiar Indo-European languages (Greek, Latin, German, and Sanskrit): The phonetics and history of the Indo-European consonants. *Weekly, through the year.*

B. *Indo-Aryan Philology.*

3. Sanskrit Seminary: The Hindu Beast Fables of the cycle of the Pañcatantra. *Weekly, through the year.*

4. Advanced course in the Veda: Selected Vedic prose (Brāhmanas and Upanishads). *Weekly, through the year.*

5. The Elements of Vedic philology: Vedic grammar, metres, and interpretation of selected hymns of the Rig-Veda. *Weekly, second half-year.*

6. The Pāli language and selections from Buddhist literature. *Weekly, through the year.*

7. Beginners' course in Sanskrit: grammar (Whitney's Sanskrit Grammar) and interpretation of an easy

text (Lanman's Reader). *Twice weekly, through the year.*

8. Selections from the Hitopadeça and the Law-Book of Manu (second year's course in Classical Sanskrit). *Twice weekly, first half-year.*

NOTE.—No knowledge of Sanskrit is presupposed for courses 1, 2, and 7. Course 1 sketches briefly the history of the Science of Language; presents a systematic account of the ethnology and religions of the Indo-European peoples; deals with the principles that govern the life and growth of language, and finally treats of the origin of language. Course 2 is intended as an elementary introduction into the methods and results of the Comparative Grammar of the more important Indo-European languages.

The following courses in Slavic Philology, offered by Dr. Edgerton, are intended to meet the needs, first, of students who desire some acquaintance with Historical and Comparative Slavic Philology. For this purpose, course 9 is basic, dealing with the most ancient and fundamental of the Slavic languages. Course 10 is also conducted with due regard to Historical Grammar, and those who desire will be able to obtain from it a general idea of the relation of the Slavic group to the rest of the Indo-European family, even without previous knowledge of Old Bulgarian. Secondly, courses 10 and 11 are intended for those who desire a practical reading knowledge of Russian, and some first-hand acquaintance with the great authors of Russian literature. Course 10 is for those who know no Russian: Course 11 for more advanced students who desire practice in rapid reading, combined with some literary comment and criticism.

9. Old Bulgarian. Historical study of the forms and inflections of the language, with practice in reading and analysis of representative texts (Leskien's Handbuch der Altbulgarischen Sprache). *Weekly, through the year.*

10. Elements of the Russian language. Brief survey of grammar, followed by selected readings from modern

writers (Berneker's Russische Grammatik and Boehme's Russische Literatur (2 vols.) both published in the Samm lung Göschen). *Twice weekly, through the year.*

11. Modern Russian Fiction. First half-year: Selected short stories of Gogol, Turgeniev, Tolstoi, Gorky, Chekhov and Andreev. Second half-year: One longer novel each by Turgeniev and Dostoievsky. *Weekly, through the year.*

Oriental Seminary

The various courses are adapted to the requirements of four classes of students, namely: (*a*) students of theology wishing to obtain a thorough acquaintance with the sacred tongue and its sister idioms as a means of eluci dating Scripture and problems of the comparative history of religion; (*b*) students of linguistics intending to make comparative grammar of the Semitic languages their specialty; (*c*) students of Oriental history and archæology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern Arabic, Turkish, Persian, modern Hebrew, Amharic, Malay, Tagalog, etc.) for practical purposes.

A room has been set apart containing a well-equipped working library for all the branches of Oriental research (including the library of the late Professor A. Dillmann, of Berlin, the Leopold Strouse Semitic Library, a special collection of works on Philippine dialects, etc.), and some advanced students are usually present to help in the preparation for the recitations conducted by the Director of the Seminary, and to furnish any other aid that may be desired. Near the Dillmann Library, on the same floor, are some archæological and antiquarian collections, including the Cohen Collection of Egyptian Antiquities, the Sonneborn Collection of Jewish Ceremonial Objects,

collections of Hebrew and other Oriental manuscripts, Babylonian seal-cylinders and clay tablets, etc.

The following courses are offered for the academic year, 1911-12:

Oriental History, Literature, and Archaeology

1. History of the Ancient East (Egypt, Babylonia, Assyria, Persia, Israel, and Judah). Dr. POEBEL. *Thursday, 4 p. m.*

2. The Cuneiform Inscriptions and the Old Testament. Dr. POEBEL. *Thursday, 5 p. m.*

3. Jewish Ceremonial Institutions. Dr. ROSENAU. *Tuesday, 2 p. m.*

4. The Literature of the Old Testament (with special reference to date and authorship). Dr. BLAKE. *Thursday, 5 p. m.*

5. Interpretation of Selected Chapters of the Old Testament (on the basis of the Authorized Version). Professor HAUPT and Dr. BLAKE. *Friday, 4 p. m.*

Biblical Philology

6. Elementary Hebrew. Dr. EMBER. *Three hours weekly.*

7. Hebrew: Second Year's Course. Dr. EMBER. *Two hours weekly.*

8. Hebrew Phonology. Dr. BLAKE. *Friday, 3 p. m.*

9. Unpointed Hebrew Texts. Dr. ROSENAU. *Monday, 9 a. m.*

10. Prose Composition (Hebrew, Arabic, Assyrian, and Sumerian). Professor HAUPT. *Monday, 5 p. m.*

11. Comparative Semitic Grammar. Professor HAUPT. *Monday, 4 p. m.*

12. Old Testament Seminary (Critical Interpretation of the Books of Haggai, Malachi, and Obadiah). Professor HAUPT. *Tuesday, 3 to 5 p. m.*

13. Cursory Reading of the Hebrew Bible. Dr. BLAKE. *Tuesday,* 10 *a. m.*

14. Post-Biblical Hebrew. (Selections from the Mishnah and the Talmud). Dr. ROSENAU. *Monday,* 2 *p. m., Tuesday,* 9 *a. m.*

15. Jewish Philosophers of the Middle Ages. Dr. ROSENAU. *Monday,* 10 *a. m.*

16. Modern Hebrew. Dr. EMBER. *Tuesday,* 11 *a. m.*

17. Hebrew Conversation. Dr. EMBER. *Monday and Friday,* 11 *a. m.*

18. Biblical Aramaic Grammar and Interpretation of the Aramaic Portions of the Book of Daniel. Dr. BLAKE. *Friday,* 5 *p. m.*

Syriac

19. Syriac (Roediger's Chrestomathy). Dr. BLAKE. *Wednesday,* 3 *p. m.*

Arabic

20. Elementary Arabic (with special reference to students of Romance Languages). Dr. EMBER. *Monday,* 5 *p. m.*

21. Arabic for Beginners (with special reference to students of Hebrew). Dr. EMBER. *Tuesday,* 5 *p. m.*

22. Selections from the Coran and the Arabian Nights. Dr. EMBER. *Wednesday and Thursday,* 10 *a. m.*

23. Arabic Prose Composition. Professor HAUPT. [See No. 10.]

Ethiopic.

24. Elementary Ethiopic. Dr. BLAKE. *Wednesday,* 5 *p. m.*

Assyriology.

25. Assyrian for Beginners. Dr. POEBEL. *Wednesday,* 4 *p. m., Thursday,* 3 *p. m.*

26. The Cuneiform Annals of the Assyrian Kings. Dr. POEBEL. *Tuesday and Friday,* 10 *a. m.*

27. Selected Sumerian Texts. Dr. POEBEL. *Tuesday,* 11 *a. m.*

28. The Literature of Babylonia and Assyria. Dr. POEBEL. *Friday,* 11 *a. m.*

29. Interpretation of the Babylonian Nimrod Epic. Professor HAUPT. *Tuesday,* 5 *p. m.*

30. Assyrian and Sumerian Prose Composition. Professor HAUPT. [See No. 10.]

Egyptology

31. Egyptian for Beginners. Dr. EMBER. *Wednesday,* 9 *a. m.*

32. Selected Hieroglyphic Texts. Dr. EMBER. *Tuesday,* 1 *p. m.*

33. Elementary Coptic. Dr. EMBER. *Tuesday,* 2 *p. m.*

Malayo-Polynesian Philology

34. Malay. Dr. BLAKE. *Monday,* 4 *p. m.*

35. Elementary Tagalog. Dr. BLAKE. *Monday,* 5 *p. m.*

Journal Meeting

36. Journal Meeting. Professor HAUPT. *Monday,* 3 *p. m.*

ENGLISH

GRADUATE COURSES

In the graduate courses the subject of English is studied with reference to the historical and technical aspects of linguistic and literary science. The usual sequence of courses enables a student, in three or four years, to study with precision the important departments of grammar and of literature, and to become trained in the process of original investigation. Instruction is im-

parted by lectures, by freer conferences, by the methods of the Seminary, and by class-room recitation. A Journal Club is conducted for the purpose of supplementing the regular courses with reports of the current work of scholars.

1. *English Seminary*

Graduate students are admitted to the Seminary as soon as they have satisfied initial requirements for independent research.

In the academic year 1911-12, the Seminary will be engaged in the study and investigation of the following subjects:

(*a*) English Literature of the Nineteenth Century. *First half-year.*

(*b*) English Literature of the Fourteenth Century. *Second half-year.*

The Seminary will be conducted by Professor BRIGHT. *Tuesday and Thursday,* 3-5 *p. m.*

2. Lectures on Historical Grammar, Versification, and Literary Criticism. Professor BRIGHT. *Tuesday and Thursday,* 12 *m.*

3. Interpretation of selected texts. Professor BRIGHT. *Monday,* 12 *m.*

4. The Journal Club of the English Seminary. Professor BRIGHT. *Alternate Fridays,* 3-5 *p. m.*

5. Professor John William Cunliffe, of the University of Wisconsin, will give a course of lectures on the comparative study of the drama, especially on Renascence Tragedy in Italy, France, and England. *Beginning of the second half-year.*

UNDERGRADUATE COURSES

Introductory courses in (*a*) Rhetoric and English Composition, (*b*) Platform Speaking and Forensics, and (*c*)

English Literature, are prescribed for all undergraduate students. For those who may wish to continue their study in any of these departments, elective courses are provided in the various forms of discourse and in the more important periods of English and American literature. Further practice in debating is provided in connection with the elective course in exposition and argument, and in the annual inter-class and inter-collegiate debates.

English Composition

1. Rhetoric and English Composition.

Theory based upon text-books, lectures, and discussions; critical study of prose writers; frequent practice in writing. This course is prescribed during the first year.

Three hours weekly, through the year. Dr. FRENCH and Mr. C. A. MYERS.

1*a*. English Composition.

This course is prescribed during the second year. Students who have attained a mark of "8" on the work of the first year are excused from this course.

One hour a week, through the year. Mr. MYERS.

2. Description and Narration.

Readings in standard prose. Practice in writing.

One hour a week, through the year. Professor GREENE.

3. Exposition and Argument.

During the first term the theory of exposition with frequent practice in expository writing. During the second and third terms, the theory of argument; practice in writing; platform speaking and debate.

Two hours weekly, through the year. Dr. FRENCH.

Public Speaking

1. Reading and Platform Speaking.

In this course attention is paid to correct habits of breathing and to enunciation and expression. Practice in the preparation and delivery of speeches adapted to various special occasions is obtained in the second half-year. The course is prescribed during the second year.

One hour a week, through the year. Dr. FRENCH.

2. Public Speaking.

The principles of argumentation; practice in argumentative writing and in debate; parliamentary procedure. This course is prescribed during the third year.

One hour a week, through the year. Dr. FRENCH.

NOTE.—Additional practice in platform speaking and in debate is provided in English Composition 3. A more specific statement respecting these courses is made on page 167.

English Literature

1. English Literature: introductory course.

The class will become acquainted with the course of English Literature from the seventh century until about 1600. Much of the poetry of Chaucer, Spenser, and Shakespeare will be read in the class-room and in private reading. This course is prescribed during the second year.

Three hours weekly, through the year. Professor GREENE.

2. English Literature, 1600-1774.

First half-year: English Literature from 1600 to 1674; special attention will be given to the English Bible and to the works of Bacon and Milton.

Second half-year: From the Restoration to the death of Goldsmith (1660-1774); special attention will be given to the writings of Dryden, Addison, Steele, Swift, Pope, Gray, Goldsmith, and Johnson.

Three hours weekly, through the year. Professor GREENE.

3. English Literature, 1765-1892.

First half-year: English Literature from the publication of Percy's *Reliques* to the death of Coleridge (1765-1834); the study will include English and Scottish Popular Ballads, and the writings of Burns, Wordsworth, Coleridge, Keats, Shelley, Byron, and Scott.

Second half-year: Tennyson and Browning; novelists and essayists since 1832.

Three hours weekly, through the year. Professor GREENE.

4. American Literature.

Literary history in outline; critical study of selected authors; written reports on assigned reading.

Two hours weekly, through the year. Dr. FRENCH.

5. English Literature.

First half-year: The English Drama from its beginnings to the closing of the theatres in 1642. After a rapid survey of the origin and development of the drama in England, the greater dramatists of the Elizabethan and Post-Elizabethan periods will be studied in some detail.

Second half-year: The Rise and Development of the English Novel.

Three hours weekly, through the year. Mr. MYERS.

6. English.

First half-year: Anglo-Saxon,—Language and Literature.

Second half-year: Middle English,—Language and Literature.

Three hours weekly, through the year. Mr. MYERS.

GERMAN

Under this head are included German Language and Literature and subjects in the wider field of Germanic Philology. Regular instruction, through seminary and lectures, is given in German Literature of the older and newer periods, and in Gothic, Comparative Germanic Grammar, Old High German, and Middle High German; while occasional courses are offered in Old Norse, Old Saxon, and Old Frisian.

Seminary

The library of the German Seminary, to which all advanced students have the fullest access, is open Mondays to Fridays from 9 a. m. to 5 p. m., and Saturdays from 9 a. m. to 1 p. m. The Seminary treats, in successive half-years, some theme from the period of German Classicism or Romanticism, and a subject from the literature of Middle High German. During the year 1911-12 the Seminary will meet three times weekly. The subject for the first half-year will be Goethe's *Faust*. In the study of the First Part, beginning with the Urfaust, the questions of conception and composition of the drama will be considered, in chronological order, from the point of view of Goethe's mind and art. The Second Part will be interpreted in selected portions, and Goethe's draft of particular scenes and of the uncompleted plot will be examined, together with the Paralipomena. The Seminary

for the first half-year will be conducted by Professor Wood. During the second half-year two of the representative Middle High German courtly epics will be studied, viz.: Hartmann von Aue's *Iwein* and Gottfried von Strassburg's *Tristan*. The Seminary will be in charge of Professor Collitz during the second half-year.

Students are requested to procure Goethe's *Faust*, the First Part, edited by Calvin Thomas, second edition, Boston, 1898; Goethe's Sämmtliche Werke, Jubiläums-Ausgabe, 13 Bd. *Faust*, hrsg. Erich Schmidt. Stuttgart (Cotta); Fr. Strehlke, *Paralipomena zu Goethe's Faust*, Stuttgart, 1891; *Iwein*, hrsg. Benecke und Lachmann, 4 Ausgabe, Berlin, 1877; *Tristan*, hrsg. K. Marold, 1 Band, Text, Leipzig, 1906 (Teutonia, 6. Heft).

Germanic Society

The Germanic Society, which includes as members all the instructors and advanced students in German, meets fortnightly. Before it are presented not only reports on articles in current journals, but also successive results of studies by the members. The chief object of the Society is to foster and guide the aptitude for more sustained individual investigation than the collective work of the Seminary offers scope for.

ADVANCED COURSES

1. The German Romantic School.

Professor Wood. *Two hours weekly, first half-year.*

The beginnings of Romanticism in German Literature will be studied in works of Tieck, Friedrich and August Wilhelm Schlegel, and Novalis. The relation of the German classicists (Goethe) to the new literary movement will then be considered, and this will be followed by the reading of representative works of the later German romanticists.

2. History of German Literature in the later Seventeenth and the earlier Eighteenth Century.

Professor Wood. *Two hours weekly, first half-year.*

After a review of the Second Silesian literary movement, the critical reforms at the close of the seventeenth century will be considered in detail, after which a series of representative eighteenth century works will be read, extending to the begin-

nings of German Classicism. The movements will be considered from the point of view of literary form, and the attempt will be made to characterize the various representative forms as nationally German, or as adaptations from foreign sources, or, finally, as an evolution from both.

3. Gothic and the elements of Comparative Germanic Grammar.

Professor COLLITZ. *Two hours weekly, through the year.*

Students are requested to procure Braune, *Gotische Grammatik*, 7. Auflage, Halle, 1909.

4. Old High German (Introductory Course).

Professor COLLITZ. *Weekly, through the year.*

Braune's *Abriss der Althochdeutschen Grammatik*, 4. Auflage, Halle, 1906, will be used; also the same author's *Althochdeutsches Lesebuch*, 6. Auflage, Halle, 1907.

5. Reynard the Fox in Middle Low German.

Professor COLLITZ. *Weekly, first half-year.*

Students are requested to procure the edition of *Reinke de Vos* by A. Lübben, Oldenburg, 1867.

6. Middle High German (Introductory Course).

Dr. KURRELMEYER. *Twice weekly, first half-year.*

Paul, *Mittelhochdeutsche Grammatik*, 7. Auflage, Halle, 1908; Bachmann, *Mittelhochdeutsches Lesebuch*, 4. Auflage, Zürich, 1909.

7. Goethe's *Clavigo* and *Die Mitschuldigen.*

Dr. KURRELMEYER. *Weekly, second half-year.*

From the point of view of recent text criticism, the attempt will be made to reconstruct the authentic form of the two dramas, as compared with the text in the *Ausgabe letzter Hand.*

Special Courses

*1. Scientific German. Dr. KURRELMEYER.

Two hours weekly, through the year.

*2. Historical German. Dr. ROULSTON.

Two hours weekly, through the year.

3. German Conversation. Mr. HOFMANN.

Weekly, through the year.

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*Courses 1 and 2 are for graduates who lack the ability to read German at sight.

UNDERGRADUATE COURSES

German Elements.

Vos, Essentials of German; Gerstäcker, *Germelshausen;* Keller, *Kleider machen Leute;* Wilhelmi, *Einer muss heiraten;* von Wildenbruch, *Das edle Blut;* Prose Composition; Grammar.

Four hours weekly, through the year. Dr. KURRELMEYER.

This course is intended only for students who have matriculated in Greek. For such students, it absolves the requirements in German for the baccalaureate degree; other students must absolve course 1.

German 1.

Modern Prose Readings: C. F. Meyer, von Saar, Fulda, Keller, Sudermann.

Section I. Dr. ROULSTON. *Three hours weekly, through the year.*

Section II. Dr. KURRELMEYER. *Three hours weekly, through the year.*

Prose Composition.

Weekly through the year. Professor WOOD (*First half-year*); Dr. ROULSTON (*Second half-year*).

Private Reading.

German 2.

Classical Authors: Schiller, *Maria Stuart, Die Braut von Messina;* Goethe, *Hermann und Dorothea.*

Twice weekly, through the year. Dr. ROULSTON.

Prose Composition.

Weekly, through the year. Dr. ROULSTON.

Private Reading.

German 3.

Goethe, *Faust, Tasso, Iphigenie.*

Two hours weekly, through the year. Professor WOOD (*First half-year*); Dr. ROULSTON (*Second half-year*).

History of Literature (Classical Period). Lyrics and Ballads.

Weekly, through the year. Dr. ROULSTON.

The work in Goethe and in the History of Literature, etc., may be taken separately.

German 4.

Contemporary Literature, in rapid readings.

Three hours weekly, first half-year. Dr. KURRELMEYER.

German 5.

Historical Readings.

Schiller, *Der dreissigjährige Krieg;* Freytag, *Aus dem Jahrhundert der grossen Krieges;* von Sybel, *Die Erhebung Europas.*

Two hours weekly, through the year. Dr. ROULSTON.

German 6.

Scientific German.

Lassar-Cohn, *Die Chemie im täglichen Leben;* von Helmholtz, *Ueber Goethes naturwissenschaftliche Arbeiten;* Walther, *Allgemeine Meereskunde.*

Two hours weekly, through the year. Dr. KURRELMEYER.

This course is open to students who have completed Course 1.

German 7.

German Conversation.

Weekly, through the year. Mr. HOFMANN.

ROMANCE LANGUAGES

Instruction is provided in the three leading Romance languages and literatures, and the advanced work is so arranged that the student may elect any one of the three as his principal subject of study.

In addition to lectures and regular class exercises, there is a French, a Spanish, and an Italian Seminary, each one of which provides practical training in methods of independent research and may be participated in by such students as show sufficient preparation. The Romance Journal Club, composed of the staff and graduate students of the department, furnishes an opportunity, at its weekly meetings, for discussion of some of the more important current literature bearing on the Romance Languages and for the presentation of such original papers by its members as do not fall within the scope of the Seminaries.

The library facilities of the University, recently enlarged by the addition of the A. Marshall Elliott Library, are further supplemented by the numerous Romance works in the Peabody and Enoch Pratt Libraries, and

by the readily accessible material in the Library of Congress.

Certain of the courses are conducted entirely in French; preliminary instruction is provided in the undergraduate department for students who are not equipped to follow these courses as regular members.

Courses marked (*) will be given at an afternoon hour, or in the forenoon of Saturday.

ADVANCED COURSES

French

French Seminary (Language): Studies in Word History.
Professor ARMSTRONG. *Two hours fortnightly.*

French Seminary (Literature): Flaubert, *Salammbô.*
Associate Professor TERRACHER. *Two hours fortnightly.*

French Syntax: Verb.
Professor ARMSTRONG. *Weekly.*

French Phonology and Morphology.
Professor ARMSTRONG. *Two hours weekly.*

*Phonetics and French Pronunciation.
Professor ARMSTRONG. *Weekly.*

*Interpretation of Early Old French Texts (Foerster and Koschwitz, *Altfranzösisches Uebungsbuch*).
Professor ARMSTRONG. *Weekly.*

Les premières épopées françaises: conférences et interprétation des textes (*Gormond et Isembart, Le pélerinage de Charlemagne, La chanson de Guillaume, La chanson de Roland).*
Associate Professor TERRACHER. *Two hours weekly.*

La littérature française au XVIe siècle (Darmesteter et Hatzfeld, *Le seizième siècle en France*).
Associate Professor TERRACHER. *Weekly.*

*French Literature in the Seventeenth Century (Lectures and extensive reading).
Associate Professor BRUSH. *Weekly.*

*Voltaire.
Associate Professor TERRACHER. *Weekly.*

Explications françaises (Marcou, *Morceaux choisis,* poètes et prosateurs).
Associate Professor TERRACHER. *Weekly.*

A course of fortnightly lectures, under the auspices of the Alliance Française of Baltimore, will be given by Professor P. F. GIROUD on "Le théâtre en France pendant la Révolution et sous l'Empire."

Spanish

Spanish Seminary: The Spanish Ballad.
Professor MARDEN. *Two hours weekly.*

Spanish Historical Grammar.
Professor MARDEN. *Two hours weekly.*

*Readings in Old Spanish Literature (*Poema del Cid* and other texts).
Professor MARDEN. *Weekly.*

The Beginnings of Spanish Literature.
Professor MARDEN. *Weekly.*

Italian

Italian Seminary: The *Inferno* of Dante.
Associate Professor SHAW. *Two hours weekly.*

Italian Historical Grammar.
Associate Professor SHAW. *Two hours weekly.*

*The Poetry of Giosuè Carducci: lectures and text interpretation.
Associate Professor SHAW. *Weekly.*

General

Introduction to Gallic Folk Latin.
Professor ARMSTRONG. *Two hours weekly, first half-year.*

Romance Paleography.
DR. KEIDEL. *Weekly.*

Romance Journal Club.
Weekly.

French 3.

Classics of the Seventeenth and Eighteenth Centuries. Readings from Corneille, Racine, Molière, Lesage, Voltaire, Rousseau. Warren's *French Prose of the Seventeenth Century.*

Two hours weekly, through the year. Associate Professor BRUSH.

French 4.

The Development of the Novel.

Lectures; private reading.

Two hours weekly, through the year. Associate Professor BRUSH.

French 5.

Advanced Composition.

Weekly, through the year. Mr. BLOSSOM.

French 6.

Readings in Historical and Scientific French Prose.

Two hours weekly, through the year. Mr. GRUNBAUM.

Open to students who have had one year of preparatory French.

French 7.

Exercises in French Conversation.

Weekly, through the year. Mr. BLOSSOM.

University credit is not given for courses 6 and 7.

Spanish

1. Hills and Ford, *Spanish Grammar;* Prose Composition; Isla, *Gil Blas;* Alarcón, *El Capitán Veneno;* Palacio Valdés, *José.*

Three hours weekly, through the year. Professor MARDEN.

This course is adapted to beginners.

2 Pérez Galdós, *Doña Perfecta;* Pereda, *Pedro Sánchez;* Ruiz de Alarcón, *La verdad sospechosa;* Calderón, *La vida es sueño;* Cervantes, *Don Quixote.*

Grammar and Prose Composition. History of Spanish Literature.

Three hours weekly, through the year. Mr. BLOSSOM.

This course is open to students who have completed course 1 or its equivalent.

Italian

1. Grandgent, *Italian Grammar;* Marinoni, *Italian Reader;* Fogazzaro, *Pereat Rochus.*
   Three hours weekly, through the year. Associate Professor SHAW.

2. Grandgent, *Italian Grammar, Italian Composition.* Selections from classic authors. A text-book of Italian Literature.
   Three hours weekly, through the year. Associate Professor SHAW.

HISTORY

Facilities for research are offered in the principal fields of history. Special attention is given to methods of investigation and each advanced student comes under the personal direction of the instructors in his chosen field. This supervision is obtained through seminary meetings and frequent private consultation.

In addition to the library of the university, students make use of the admirable collections of source material in the Peabody Library and the Maryland Historical Society, and are in constant touch with the great resources of the Library of Congress and the departments in Washington. The university library has recently received large and important accessions of historical works and documentary material.

GRADUATE COURSES

European History. The courses in European History direct attention to the social, economic, and constitutional development of European peoples. The subjects follow in consecutive order, the topics for each year forming a complete and independent group. The series re-

quires three years for completion and offers opportunities for close study of selected portions of the mediæval and early modern history of the Continent. A weekly seminary is held for the study of problems in European history and institutions.

Courses in Latin palæography and in French palæography are given in their respective departments.

English History. The constitutional and social history of England is treated in connection with the corresponding periods in European history. A part of the seminary work is devoted to problems in this field and direction is given to further special research.

American History. The courses in American History are arranged in a cycle of three years. They begin with the history of British colonization in America and deal with the constitutional and economic growth of the colonies and the constitutional and political history of the United States after 1783. A weekly seminary is held for research in special subjects in American History.

Ancient History. The courses in Ancient History take into consideration the constitutional, social, artistic, and economic development of the peoples of Greece and Italy. Special attention is given to the historical evidence furnished by epigraphy and archæology. The constitutional history of Greece and Rome is supplemented by lectures on the Roman Law. Certain portions of Oriental History are treated in the departments of Semitics and Sanskrit.

Special Lectures. The Albert Shaw Lectures on Diplomatic History are given annually by investigators in selected fields of American and foreign relations. The scope of the lectures is not confined to the United States, but lectures on European diplomatic history will also find their due place. The course for 1910-11 was given by Dr. C. O. Paullin, of Washington, D. C., on "The Diplomatic Activity of the American Navy in the Far East." In 1911-12 the lecturer will be Professor Isaac J. Cox, of

the University of Cincinnati, on the diplomatic negotiations connected with the annexation of West Florida.

The James Schouler Lectures in History and Political Science are given annually by lecturers of prominence, upon topics indicated in the title of the lectureship. These lectures are open to the public as well as to the students and members of the University. The course for 1909 was given by Dr. Abbott Lawrence Lowell, President of Harvard University, and that for 1910 by George Walter Prothero, Litt. D., formerly professor of history in the University of Edinburgh, now editor of the *Quarterly Review* and Honorary Fellow of Queen's College, Cambridge. The lecturer for 1911 was Professor John Bassett Moore, of Columbia University.

Other lectures of interest to the students of this department, either open to the public or designed for class instruction, are given from time to time by distinguished scholars outside the university. These lectures are, in part, provided for from the income of the fund bequeathed by the late Professor Herbert B. Adams.

Historical and Political Science Association. This monthly meeting of the instructors and students of the departments of history, political economy, and political science affords an opportunity to hear addresses from prominent specialists, to consider important movements and undertakings, and to present critical reviews of recent publications in the fields of history, political economy, and political science.

For the year 1911-12 the courses will be given as follows:

Professor VINCENT.

1. Constitutional History of England.

After a rapid review of the beginnings of parliamentary government, the course will devote special attention to the period from the seventeenth to the nineteenth century.

Two hours weekly, through the year.

2. The Reformation.

With the study of the religious questions will be included the economic and social conditions which accompanied the movement in western Europe.

One hour weekly, through the year.

3. Seminary of European and English History.

Two hours, alternate weeks, through the year.

Associate Professor BALLAGH.

1. The Development of the American Revolution.

One hour weekly, first half year.

2. The Sources and Formation of the United States Constitution.

One hour weekly, second half year.

3. History of the United States Public Land System.

One hour weekly, through the year.

4. Seminary in American History.

Two hours, alternate weeks.

Dr. MAGOFFIN.

1. History of Greece during the Hellenistic Period.

One hour weekly, through the year.

2. History of Rome and Italy from 133 to 44 B. C.

One hour weekly, through the year.

UNDERGRADUATE COURSES.

1. History of Greece and Rome.

The political and constitutional history of Greece and Rome, approached through the translated texts of Herodotus, Thucydides, Suetonius, Tacitus, and others, with the aid of modern authorities.

Three hours weekly, through the year. Dr. MAGOFFIN.

[To be given in 1912-13.]

2. European History.

From the decline of the Roman Empire to the nineteenth century, dealing with the Romano-Barbarian kingdoms, the empire of Charles the Great, feudalism, the crusades, empire and papacy, renaissance, the Protestant revolution, the religious wars, eighteenth century states and the doctrine of the balance of power, the French Revolution, the Napoleonic period, and the reorganization of Europe in the nineteenth century.

Three hours weekly, through the year. Professor VINCENT.

3. English History.

Chiefly constitutional and political, dealing with the origins and development of parliamentary institutions, the relations of England with Continental Europe, and the modern expansion of the British Empire.

Three hours weekly, through the year. **[*Tuesday, Thursday, Friday, 9 a. m.*] Professor VINCENT.**

4. American History.

Colonial history and institutions, the formation of the Union, the development of constitutional government and law, the growth of foreign policy, the expansion of the nation. Emphasis will be laid on the national period, and the subject will be brought to the close of the nineteenth century. Open to students who have had History 2 or 3 or Political Economy 1.

Three hours weekly, through the year. **Associate Professor BALLAGH.**

POLITICAL ECONOMY

GRADUATE COURSES

The graduate instruction in Political Economy is designed primarily to meet the needs of advanced students preparing for a professional career in economic science. The courses afford systematic instruction in general economic principles, intimate acquaintance with special fields of economic activity, and, most important of all, knowledge of and ability to employ sound methods of economic research. The work centers in the Economic Seminary, the membership of which is limited to the most advanced students, and the primary design of which is to develop scientific research in economic study and investigation.

Formal graduate instruction is offered in Economic Theory and in Applied Economics, by parallel courses of lectures throughout the year. The particular topics treated vary from year to year. In 1909-10 Professor Hollander lectured two hours weekly on the economic system of David Ricardo, and two hours weekly on the history and theory of taxation. During the year 1910-11 atten-

tion was given in the course on economic theory to the principles of political economy. In the course on applied economics, careful study was made of the history and theory of municipal finance. Associate Professor Barnett lectured during the first half-year on the history of industrial corporations and during the second half-year on the regulation of corporations. Special courses of lectures were given during the year by Dr. Frank R. Rutter, of the Department of Commerce and Labor, on "The Tariff Problem;" by Professor Thomas W. Page, of the University of Virginia, on "Immigration;" and by Mr. Logan G. McPherson, Director of the Bureau of Railway Economics, on "Transportation."

The courses offered for 1911-12 are as follows:

1. The Economic Seminary.

Two hours weekly, through the year. Professor HOLLANDER and Associate Professor BARNETT.

The work of the year will continue to be a systematic study of the history, structure, and activities of labor organizations in the United States.

2. Economic Theories since Adam Smith.

Two hours weekly, through the year. Professor HOLLANDER.

A critical survey will be made of the development of fundamental concepts of economic science from Adam Smith to current thought. The topical or cross-sectional method of treatment will be adopted, and the history of the theories of Wages, Interest, Profits, Rent, Value, Production, Distribution, and Consumption will be successively reviewed.

3. American Public Finance.

Two hours weekly, through the year. Professor HOLLANDER.

The financial experiences of the States and Territories of the United States will be taken as the basis for critical and comparative study. Attention will be paid to recent tendencies in commonwealth taxation and exercise will be afforded in the use of original sources of financial information.

4. Banking.

One hour weekly, through the year. Associate Professor BARNETT.

During the first half-year the history of American banking will be considered. During the second half-year attention will be given to a comparative study of modern banking systems.

Special courses of lectures will be given by non-resident lecturers upon such practical economic problems as charities and correction, railway transportation, industrial organization.

A reading class is organized yearly by the more advanced students of the department for the co-operative study of economic texts and for the critical discussion of current economic literature.

In co-operation with the departments of history and political science, opportunity is offered in the Historical and Political Science Association for the presentation and discussion of original papers in economic science by instructors and invited speakers, and for the review by students of current publications of importance in these fields.

UNDERGRADUATE COURSES

1. (*a*) Economic History.

The economic development of England from the tenth century to the present time and the most important experiences of the United States are studied.

Three hours weekly, first half-year. Associate Professor BARNETT.

(*b*) Elements of Economics.

Particular attention is given to the theory of distribution and its application to leading economic problems.

Three hours weekly, second half-year. Associate Professor BARNETT.

2. (*a*) Finance.

The theory and practice of finance are considered, with particular reference to problems of taxation as presented in the experience of the United States.

Three hours weekly, first half-year. Professor HOLLANDER.

(*b*) Money and Banking.

The principles of monetary science are taught with reference to practical conditions in modern systems of currency, banking, and credit.

Three hours weekly, second half-year. Associate Professor BARNETT.

3. (*a*) Statistical Methods.

After a preliminary study of the value and place of statistics as an instrument of investigation, attention is directed to the chief methods used in statistical inquiry.

Three hours weekly, first half-year. Associate Professor BARNETT.

(*b*) Economic Theory.

Critical study is made of recent economic theories.

Three hours weekly, second half-year. Professor HOLLANDER.

NOTE.—Undergraduate Course 2 is open only to such students as have completed Course 1; and, save under exceptional circumstances, Course 3 only to students who have completed 1 and 2.

Political Science

Graduate Courses

The graduate work in Political Science has for its aim the preparation of advanced students for professional and original work in the fields of Constitutional Law, International Law and Diplomacy, and Political Philosophy. It seeks also to supply the necessary training for those desiring to enter the higher branches of the public service, and to furnish a broad and philosophical equipment to those who expect later to pursue the study and practice of the law.

Seminary

In addition to the Historical and Political Science Association, at which the students of the departments of History, Economics, and Political Science meet jointly for the presentation of papers by the instructors and by invited speakers, a fortnightly Seminary is conducted by Professor Willoughby, at which reports upon special subjects are read by the students and discussed.

Journal Club

A fortnightly meeting of the advanced students, under the direction of Professor Willoughby, is held for the discussion of current political literature—books and periodicals.

Lectures

The lectures are so arranged as to give three or more years of continuous instruction, covering the following subjects: The Theory of the State (being a general introduction to the study of Constitutional and International Law), Foreign Constitutional Law, United States

Constitutional Law, the Legal Aspects of Economic and Industrial Problems, the History of Political Theories and of Political Literature, and Historical Jurisprudence.

During the year 1911-12 the following courses will be given:

1. United States Constitutional Law. Professor WILLOUGHBY.
   Three hours weekly, first half-year.
   This course is in continuation and completion of the course given in 1910-11.
2. Introduction to the Study of Public Law; Principles of Political Philosophy. Professor WILLOUGHBY.
   Three hours weekly, second half-year.
3. Political Theories and Political Literature in France in the Eighteenth and Nineteenth Centuries. Professor WILLOUGHBY.
   One hour weekly, throughout the year.
4. Principles of International Law. Dr. J. B. SCOTT.
   One hour weekly, throughout the year.
   This course is a continuation of the one given in 1910-11.
5. The Principles and Practice of Diplomacy. Dr. J. B. SCOTT.
   One hour weekly, throughout the year.
6. Historical Development of the Judicial Institutions of England. Dr. B. C. STEINER.
   One hour weekly, throughout the year.

Undergraduate instruction in Political Science is given in the departments of History and Economics.

Philosophy, Psychology, and Education

Graduate Courses

The graduate work of the department takes different directions according as the chief interest of the student lies in the field of Philosophy, in Experimental and Comparative Psychology, or in Education.

In Philosophy, opportunity is offered for specialization in systematic philosophy, in logic and the philosophy of natural science, in the history of philosophy, or in ethics. In Psychology, the student may center his study upon human psychology, animal behavior, or psychiatry. In Education, the work recognizes the bearing of the historical and theoretical material upon present practical problems.

The student's program during the first and second years is adapted, so far as possible, to his individual needs and his purposes as teacher or investigator. In the third year, the student concentrates upon the topic of his dissertation.

Graduate Conference.

Meetings of all the instructors and graduate students are held as occasion may arise for the presentation of the results of work of members of the department, for hearing papers by invited guests, and for the informal discussion of important recent publications.

Philosophy

1. Seminary.

Individual work to be separately arranged for each student under the direction of Professor Lovejoy. The work will consist of required reading, methodical analysis of problems, the presentation of a connected series of fortnightly or monthly papers, and frequent conferences with the instructor.

2. British Empiricism.

Professor Griffin. *One hour a week, through the year.*

3. Post-Kantian Philosophy: Fichte and Schelling.

Professor Buchner. *One hour a week, through the year.*

4. Contemporary Tendencies in Metaphysics and Epistemology.
Professor LOVEJOY. *Two hours a week, through the year.*

5. English Ethics from Hobbes to Price.
Professor GRIFFIN. *One hour a week, through the year.*

6. The Ethical Theory of Distribution.
Professor LOVEJOY. *One hour a week, through the year.*

Psychology

7. Introduction to Experimental Psychology.
Dr. DUNLAP. *Lectures and laboratory exercises, Monday, Tuesday, and Wednesday, 2 to 4 p. m.*

8. Experimental Psychology (Research Course).
Professor WATSON and Dr. DUNLAP. *Two hours a week, through the year.*

9. Introduction to Comparative Psychology.
Professor WATSON. *Lectures and laboratory exercises. Two hours a week, through the year.*

10. Comparative Psychology (Research Course).
Professor WATSON. *Two hours a week, through the year.*

11. Advanced General Psychology.
Professor WATSON. *Two hours a week, through the year.*

12. Psychological Journal Club.
One hour a week, through the year.

(For related courses, see under Biology in this Register, and under Psychiatry in the Catalogue of the Faculty of Medicine.)

Education

13. Seminary.
Professor BUCHNER. *Two hours a week, through the year.*
The work of the year will be a study of the history and principles of secondary education.

14. Educational Psychology.
Professor BUCHNER. *One hour a week, through the year.*
In this course, which is a continuation of the one given in 1910-11, attention will be paid to the psychology of school activities.

UNDERGRADUATE COURSES

1. *a.* Deductive and Inductive Logic.

Creighton's Introductory Logic is at present used as a text-book, with references to the works of Jevons, Mill, Bain, Keynes, and other writers.

Professor GRIFFIN. *Three hours weekly, until Christmas.*

b. Psychology.

Text-books, liable to change from year to year, are made the basis of instruction, but the subject is presented largely through informal lectures and discussions, and by means of passages in various authors assigned for reading. A series of lectures and demonstrations on physiological and experimental psychology is included in the course. One essay on an assigned subject is required from each member of the class.

Professor WATSON. *Four hours weekly, January to April.*

c. Ethics.

The subject is taught by lectures, recitations from a text-book—Mackenzie's Manual of Ethics being used at present—and references to the works of the most important writers.

Professor GRIFFIN. *Three hours weekly, after April* 1.

2. Outlines of the History of Philosophy.

Rogers's Student's History of Philosophy, Weber's History of Philosophy, and other works of reference, are used as the basis of lectures, discussions, and recitations.

Professor GRIFFIN. *Two hours weekly, through the year; a third hour, for readings from the works of leading philosophers, may be taken.*

All candidates for the degree of Bachelor of Arts are required to follow Course 1 during the last year of residence.

DRAWING

1. Freehand Drawing.

The instruction aims to teach students the principles of seeing and rendering correctly any object or group of objects.

The practical value of this training is found in the illustration of lectures and laboratory work in biology and medicine.

Students looking forward to teaching as a profession will find the ability to clearly demonstrate their lectures by means of drawings to be of great service.

Three hours weekly, through the year. Mr. WHITEMAN.

2. Descriptive Geometry and Mechanical Drawing.

This course is offered to students who intend studying architecture or engineering. The work consists of lectures in the theory, and of the practical application in working problems. The study of linear perspective and the perspective of shadows, together with orthographic and isometric projections, is taken up later in the course.

Three hours weekly, through the year. Mr. WHITEMAN.

PUBLIC SPEAKING AND DEBATE

A course in reading and platform speaking is required of undergraduate students in their second year. For the sake of convenience in instruction, the class is divided into several small sections, to each of which is devoted one hour a week. A course in debating, which involves the study of parliamentary law, the collection and arrangement of material, and frequent practice in debate under the direction of an instructor, is assigned to students in their third year. The work of the two years is counted as a half-course. During the fourth year opportunity for a more detailed study of the art of debate and for practice in argumentative composition is open to those who desire it. Prize contests in public speaking and in debate are held annually, and one intercollegiate debate is, as a rule, undertaken each year.

PHYSICAL TRAINING AND ATHLETICS

The authorities of the university, recognizing the importance of systematic physical exercise under suitable advice, have placed the gymnasium in charge of Dr. Ronald T. Abercrombie, and have put the work of this department on a parity with the work done in the regular courses of study.

A careful physical and medical examination is made of each undergraduate, and such exercises are prescribed as are best suited to his needs. During his first year of residence, he is required to follow the prescribed gymnasium course, which includes also his attendance on a course in hygiene. Regular class instruction is given every afternoon from five to six o'clock. The use of the gymnasium is optional in the case of graduate students; it is offered to all members of the university upon payment of the ordinary locker fee.

The gymnasium—127 feet long by 35 feet wide—is provided with convenient lockers, baths, etc., as well as with the newest forms of apparatus. Adjoining the gymnasium proper is a "cage"—an enclosed and covered space for practice in running and in athletic sports—127 feet long, 66 feet wide, and 30 feet high.

"Hopkins Field," the athletic ground at Homewood, is now in use by the students. In its construction special attention was paid to the problem of drainage, and in this respect the field is well-nigh perfect. It is enclosed by one of the best quarter-mile cinder tracks in the country, with a 220-yard "straightaway." A club-house provides dressing rooms, lockers, and shower baths. Two stands built of ferro-concrete and accommodating each about fifteen hundred spectators have been erected. Immediately adjoining Hopkins Field are well-equipped tennis courts.

In order to prevent ill-advised participation in outdoor sports, and to guard against over-indulgence in training, the athletic teams of the university are under the control of the director of the gymnasium. No student is allowed to become a member of a team unless his physical condition is satisfactory and his "strength test" up to the prescribed standard; and no student is allowed to be a member of, or a candidate for, an athletic team, who is seriously deficient in his studies.

THE DEGREE OF MASTER OF ARTS

The degree of Master of Arts is offered to students who have obtained the baccalaureate degree from a college of good standing, have then followed courses of university study under proper guidance for at least two years, and have satisfied the requirements mentioned below.*

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and, if any of the years of graduate work have been passed by the candidate away from this University, whether they may be considered as spent in accordance with these regulations.

At least one academic year must be passed in this University, and in every case this must be the one immediately preceding the final examinations, unless special permission to the contrary is granted by the Board of University Studies for some extraordinary reason.

The candidate for the degree must make formal application to the Board of University Studies at least one academic year before he expects to present himself for his final examinations. In this application he must state the subject which it is his intention to pursue as his principal study, and in his choice of additional subjects he must be guided by the advice of the professor in charge of his principal work.

In order to obtain the degree the candidate must satisfy two requirements:

1. He must prepare an essay upon a subject approved by the Board of University Studies. This must be completed and submitted to the Board at least four weeks before the time of the final examinations. Two referees will then be designated who shall present to the Board a written report. This essay shall be prepared for pre-

*It is to be understood that the University work for one of these years may be distributed through two or more years, in cases where the student can devote only a part of his time to study.

sentation to the Board in the manner prescribed for the dissertations submitted for the degree of Doctor of Philosophy.

2. If the report on the essay is satisfactory, the candidate will then be admitted to the final written examinations.

The candidate is, however, permitted to take at the end of any academic year examinations on the subjects followed during that year, or at the beginning of the next year. In case these are passed in a satisfactory manner, he will not be examined further in them. Reports of these examinations shall be made to the Board of University Studies.

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is offered to students who, after obtaining the baccalaureate degree from a college of good standing, have followed courses of university study under proper guidance and without serious distractions for at least three years, and have satisfied the requirements mentioned below.

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and which, if any, years of graduate work not spent in this University are to be considered as spent in accordance with these regulations.

At least one academic year must be passed in this University, and, except in extraordinary cases, the one preceding the final examinations.

Principal and Subordinate Subjects

To become a candidate for the degree the student must select a subject on which he intends to concentrate his efforts and must place himself under the guidance of the professor of this subject. This is called his "principal" study. With the advice of the professor and subject to the approval of the Board of University Studies, the student must choose two other studies, known as "subordinate" subjects, which he must follow. These are called the "first subordinate" and the "second subordinate," and the two should represent one year's work, two-thirds of this being devoted to the former. Additional information concerning the selection of these subjects is given on pages 174-181.

Acceptance of the Candidate

A student who wishes to be considered a candidate for the degree must make written application to the Board of University Studies, upon a form provided for this pur-

pose, at least one academic year before he expects to present himself for his final examinations* Before this application can be accepted, he must satisfy the University examiners that he is able to translate at sight French and German journals and monographs relating to his principal subject.

Requirements for the Degree

Certain examinations, as outlined below, must be passed by a candidate, in order to obtain the degree; but the distinctive requirement is the presentation of evidence that the candidate has carried to successful completion an original investigation in his principal subject upon a theme approved by his chief professor. The results of this investigation must be embodied in a dissertation, and submitted to the Board of University Studies.

Regulations concerning the Dissertation

a. The dissertation must be prepared for presentation to the Board of University Studies in accordance with instructions to be obtained from the Registrar, and to every such dissertation must be appended a brief biographical sketch of the author. It must be submitted to the Board at least four weeks before the examinations in the principal subject.

b. The Board shall designate two or more referees, who shall make a written report on the dissertation.

Regulations concerning the Examinations†

a. The candidate shall be subjected to written examinations in his principal subject, and, whenever prac-

*A student who has been admitted as a candidate for the degree of Doctor of Philosophy, will be considered to have satisfied the requirements for admission to courses leading to the degree of Master of Arts.

†If a student who has absolved the examinations required for the degree of Master of Arts in this University, becomes a candidate for the degree of Doctor of Philosophy, he may, at the discretion of the professors, be excused from any further written examinations in the particular courses in which he has already passed.

ticable, in both his subordinate subjects. The results of the examinations shall be reported in writing to the Board of University Studies; and, if these reports and the report on the dissertation are satisfactory, the candidate shall be admitted to an oral examination in his principal and first subordinate subjects before the Board or a section of it.

b. The written examinations in the subordinate subjects may be taken at any time during the candidate's residence at the University subject to the judgment of the examiners.

c. In the written examinations no session shall exceed five hours. In the oral examinations before the Board, the time allotted shall be one hour; and three quarters of this shall be devoted to the principal subject.

Other Regulations

Before the candidate is admitted to the oral examination he must signify his intention, in the event of his receiving the degree, to print his dissertation in full or in part, and to satisfy the requirements specified below.

If the dissertation is not printed in full, an abstract must be prepared or a portion selected with the approval of the professor, which shall contain when printed not less than twenty-four octavo pages.

One hundred and fifty printed copies of the dissertation must be presented to the University within one year of the time when the degree is conferred. These must have the prescribed title page and must contain the biographical sketch.

The candidate is advised to have these printed copies ready for presentation before the date for the conferring of the degree; otherwise a deposit of $50.00 with the Treasurer of the University must be made. This deposit is returned when the printed copies are presented to the University. If these have not been received within the year specified, the Board of University Studies may declare the deposit forfeited and may apply the amount in printing the dissertation or a part of it.

Conferring of the Degree

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

Choice of Subordinate Subjects

The following suggestions are not to be understood as limiting the attention of the student to the subjects directly connected with the requirements for the degree. In order to secure the full benefit of university training, it is often desirable to broaden the outlook through acquaintance with other subjects—especially those that are conterminous with the chosen field of study. It is also important to learn to appreciate the methods and to come under the influence of other personalities than those that dominate the student's special line of work.

In the choice of subordinate subjects to be associated with a principal one, considerable freedom is permitted by the Board of University Studies. Certain combinations have been recognized officially in previous years, and others are admissible.

In the study of any principal subject the knowledge of a limited number of other subjects is, as a rule, essential. If, on entrance, the student is not sufficiently proficient in these, he must follow courses in this university which will give him the requisite knowledge. These courses need not, however, of necessity be offered as first and second subordinates.

In order to guide the student in his selection of subordinate studies, a number of statements are given below in tabular form, which apply to the various departments of study in this university. These statements furnish—

I. In case the student selects a given subject as his principal one—

a. A list of the other subjects an adequate knowledge of which is considered essential.

b. A list of subjects which in the past have been accepted as first or second subordinates in connection with the principal subject.

II. In case the student selects a given subject as his subordinate one—

A list of the courses in that department, which are ordinarily considered sufficient.

Mathematics

I. *a.* While no other subject can be said to be essential to the study of mathematics, it is very desirable that one taking up graduate work should have adequate knowledge of natural sciences, particularly of physics.

b. Physics, Geological Physics, Electricity, Astronomy, History of Philosophy, Psychology.

II. Two or more of the following: Elementary Differential Equations, Theory of Functions, Vector Analysis, Dynamics.

Physics

I. *a.* Chemistry and Mathematics.

b. Chemistry, Physical Chemistry, Mathematics, Astronomy, Applied Electricity, Geological Physics.

II. Physics 1, 2, or 3, with corresponding laboratory courses, Advanced General Physics, Applied Electricity.

Astronomy

II. Celestial Mechanics, Cosmical Physics, with observatory work.

Chemistry

I. *a.* Mathematics (through the Calculus), General Physics, Mineralogy, Physical Chemistry.

b. Mathematics, Physics, Mineralogy, Geology, Physical Chemistry, Biology 1.

II. Chemistry 2 or 3, Physical Chemistry, with corresponding laboratory courses.

Geology

I. *a.* Students who take Geology as their principal subject, are allowed to select courses suitable as a training for general geology and teaching, or those which lead to specialization in Paleontology, Stratigraphic Geology, Petrography, Mineralogy, or Geological Physics. All students are expected to be familiar with the matter given in the elementary or undergraduate courses.

b. (1) Biology, (2) Chemistry, (3) Physics, (4) Petrography, (5) Mineralogy, (6) Paleontology.

Nos. 1–3 may be taken as second subordinates by all students in Geology.

Nos. 4–5 may be taken as a first subordinate by students specializing in Paleontology or Stratigraphic Geology, who are advised to take Biology or Physics as a second subordinate.

No. 6 may be taken as a first subordinate by students specializing in Petrography or Mineralogy, who are advised to take Chemistry or Physics as a second subordinate.

II. For students in Physics: Geological Physics, Exploratory Surveying, Crystallography—Optical Mineralogy (Geology 1 in part, Advanced Mineralogy in part).

For students in Chemistry: Geology 3 and Economic Geology, Geology 1, Advanced Mineralogy.

For students in Biology: Geology 1 or 2, Paleontology and Paleobotany, Historical Geology.

Zoology

I. *a.* Two or more of the following: Chemistry, Physics, Botany, Geology, Physiology, Psychology.

b. Botany, Physiology, Geology, Anatomy, Pathology.

II. Biology 1, Biology 2 (Part 1), Biology 3 (Part 1), a graduate course.

Botany

I. *a.* Physics, Chemistry, General Biology, Zoology.

b. Zoology, Physical or Organic Chemistry, Geology, Physiology, Pathology.

II. An undergraduate course, with laboratory work; one of the graduate courses.

Physiology

I. *a.* Physics, Chemistry, and Biology.

b. Zoology, Botany, Physics, Chemistry, Physiological Chemistry.

II. Course 4, as on page ——

Greek

I. *a.* Latin and English (language and literature).

b. Latin, Comparative Grammar, Sanskrit, English, Semitic, Classical Archæology, Philosophy.

II. Prescribed courses of reading in the chief ranges of Classical Greek literature of greater or less extent for first or second subordinate. Two courses of practical exercises for the first subordinate, one course for the second. Attendance on the Seminary for two years for the first subordinate, one year for the second.

Latin

I. *a.* Greek and English (language and literature).

b. Greek, Sanskrit and Comparative Philology, Classical Archæology (Greek and Roman), English, a Romance language, a Semitic language, History.

II. Attendance on the Seminary and lectures during two years for the first subordinate subject, one year for the second, in both cases with prescribed courses of reading in Roman literature.

Those who make Latin their principal subject must take Greek as one of their subordinate subjects. They must also follow the regular courses in Latin Epigraphy and Palæography, as well as in the Comparative Grammar of the Indo-European languages.

Classical Archæology

I. *a.* Latin and Greek.

b. Latin, Greek, History, Sanskrit and Comparative Philology, Italian or another Romance language.

II. Five hours weekly for two years for the first subordinate; five hours weekly for one year for the second. Prescribed course of reading.

Those who make Classical Archæology a principal subject are urged to plan for at least a year of residence in Europe, preferably in the American School of Classical Studies at Athens or in the American School of Classical Studies in Rome. For advanced students of Roman Archæology, a reading knowledge of Italian is indispensable.

Sanskrit and Comparative Philology

I. *a.* Classical or Modern Philology, History, Philosophy.

b. Greek, Latin, Germanic Philology, English, Semitic Philology, Philosophy.

II. For the first subordinate subject, a course in Sanskrit, two lectures a week during two years, and attendance on the Vedic Seminary for a half-year, one hour a week; for the second subordinate subject, a course in Sanskrit, two hours a week during a year and a half.

In no case has a student whose principal subject was Sanskrit and Comparative Philology restricted himself to two subordinate subjects. As a rule, Avestan, Lithuanian, Gothic, English, and other subjects figured among his courses, in addition to the principal and the two subordinate subjects.

Oriental Seminary

I. *a.* For Hebrew as the principal subject—German, Greek, Latin, Arabic, History of the Ancient East, Biblical Antiquities, Geography of Western Asia.

b. Assyrian, Arabic, Syriac, or Ethiopic, as the first or second subordinate subject; Egyptology, History of the Ancient East, History of Philosophy, Greek, Sanskrit, Philippine languages, as the second subordinate.

II. For Hebrew as first subordinate—Comparative Hebrew Grammar, Hebrew Prose Composition, Old Testament Seminary.

For Hebrew as second subordinate—the second year's course in Hebrew and private reading of at least fifty chapters of the Hebrew Bible.

English

I. *a.* Gothic, Old High German, Middle High German, Old Norse, Old French, German and French Literature.

b. German, French, Italian, Spanish, Greek, Latin, Sanskrit, History, Philosophy.

II. Courses in the history of the Language and the Literature, and some special work in selected periods or subjects.

German

I. *a.* English, French, Latin.

b. English, French, Latin, Sanskrit, Spanish, Greek, History of Philosophy, History.

II. German as second subordinate—Courses 1, 2, 5, Seminary in Middle High German, one year's membership in the Germanic Society (or a similar amount of work in German Literature).

German as first subordinate—a combination of the two alternates indicated above; two years' membership in the Germanic Society.

Romance Languages

I. *a.* Latin; a reading knowledge of Spanish, or of Italian, if either of these is chosen as the principal subject; an elementary acquaintance with French, Spanish, or Italian history, according to selection of subject.

b. Sanskrit, Greek, Latin, German, English, History, Philosophy.

II. For the first subordinate, Literature (old and modern), Language (old and modern), Physiological Phonetics, Popular Latin, Private Reading.

For the second subordinate, Literature (modern), Language (modern), Private Reading.

History

I. *a.* Political Economy, Political Science, Latin, French, German.

b. Political Economy, Political Science, Philosophy, English, French.

II. For the second subordinate, lectures, with collateral research, two hours a week for two years, either in European, English, or American history; for first subordinate, four hours a week for two years, with choice in the same subjects.

Political Economy

I. *a.* History and Political Science.

b. History, Political Science, Philosophy, English, Mathematics, Biology.

II. For the first subordinate, two graduate courses for two years, with prescribed reading; for the second subordinate, two graduate courses for one year, with prescribed reading.

Political Science

I. *a.* History, Political Economy, and the Principles of Private Law.

b. History, Political Economy, Philosophy, the Principles of Private Law.

II. Two hours' lecture work, with collateral reading, for two years, for the second subordinate; four hours' work for two years for the first subordinate.

Philosophy, Psychology, and Education

The choice of subordinate subjects is made in consultation with the professors. The different branches of the department—Philosophy, Psychology, and Education—do not lend themselves to a single scheme of subordinate subjects, since wide variations arise in individual cases.

COLLEGIATE INSTRUCTION

The Johns Hopkins University makes ample provision for collegiate instruction. The courses offered to undergraduates are maintained with no less care and thoroughness than those intended for advanced students; many of the most experienced members of the academic staff coöperate in the conduct of them. No small part of the influence and usefulness of the university is in connection with the collegiate classes, in which, since 1876, more than twenty-one hundred students have been enrolled.

Certain features of organization and administration have contributed to the effectiveness of the undergraduate work. The scrupulous observance of the distinction between the disciplinary methods appropriate to college teaching and the freer methods of advanced instruction; the "group" arrangement of studies, combining a reasonable liberty of choice with a sufficient exercise of authority; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger pupils of the presence of a large body of graduate scholars conducting investigations in all the great departments of learning,—these conditions have proved favorable to the development of earnestness and scholarly devotion.

ARRANGEMENT OF COURSES

Upon admission to the university, an undergraduate student is assigned to an Adviser (see page 197), and under his guidance is expected to select a scheme of studies composed of courses more or less connected. In order to help the student in this selection, five groups of studies are organized, details concerning which are given below. Having once made a choice, a student may not change his group, except with the consent of his Adviser, and with the approval of the Executive Committee of the Board of Collegiate Studies.

In the formation of the groups it is intended to combine such studies as shall give the student the essential elements of a liberal education, and, at the same time, special training in certain coördinate subjects. By this method the student is not bound to a particular routine of work for which he may feel no special inclination, nor yet is it possible for him to waste his time and attention by the injudicious selection of wholly unrelated subjects. In each group certain studies are prescribed for all students who are candidates for a degree, and certain other studies are peculiar to the individual group.

By reference to the detailed statement of each group given on pages 186-191 it will be seen that the courses of the first two years are prescribed, but that in each of the last two years there are but one or two prescribed studies. In each of these last two years, therefore, a student may, subject to the provisions already noted, elect four courses. With the approval of his Adviser he may select any courses which he is prepared to enter.

The following is a general statement of the characteristic features of the several groups:

Group I. Ancient Languages

In Group I the emphasis is laid upon Latin and Greek, each of which is studied for at least two years. In the

last two years the courses are so arranged that the student may continue the study of these languages; or, if he desires, he may devote himself to the study of History, Modern Languages, or Science.

Group II. Modern Languages

In Group II the study of Latin is continued for two years, but the literary training of the student is based chiefly on the study of English, French and German, with Spanish and Italian if desired. In the later years, the courses are arranged so as to permit the student to continue the study of Modern Languages, or to give his attention to History or Science.

Group III. History and Political Economy

In Group III the study of Latin is continued as in Groups I and II, but the student devotes the greater part of his time to History and Political Economy. He may continue these studies during the last two years, or he may take advanced courses in Latin, Modern Languages, or Science.

Group IV. Mathematics and Physics

In Group IV the training of the student is based upon the study of the exact sciences rather than upon language and history. Mathematics and Physics are studied for at least two years, and the student may also follow courses in Chemistry, Biology, or Geology. In the last two years, the student may continue the former studies, or he may take advanced courses in Modern Languages and History.

Group V. Chemistry, Biology, and Geology

In Group V the natural sciences form the basis of instruction, being supplemented by the prescribed courses in Modern Languages, History or Political Economy, and Mathematics. In the later years, the student may con-

tinue the study of Science, or he may devote his attention to Modern Languages or History.

Students who intend to enter the medical department of this university, should choose Group V, and should arrange to pursue the following courses: English, French and German, each for two years; Mathematics for two years; Chemistry for three years; Biology and Physics, each for one year. Other prescribed courses are History or Economics for one year, and Philosophy for one year. These students are advised by the Medical Faculty to arrange their work so that their last year shall include courses in Chemistry and Biology, and, if possible, a course in the Chemistry of the Carbon Compounds.

These courses may be arranged as follows:—First year: Chemistry 1, French 1 or German 1, English Composition 1, Mathematics 1, Physical Training. Second year: English Literature 1, German 1 or French 1, Mathematics 2, Chemistry 2, Vocal Training, and a half-course to be elected. Third year: Physics 1, with laboratory, General History (History 2) or Political Economy, French 2 or German 2, Biology 1, Forensics. Fourth year: Philosophy, German 2 or French 2, Chemistry 3, Biology 2.

It should be noted that, in order to enter the medical department, the degree of Bachelor of Arts is required, and further that the conditions for this degree, as stated on page 195, prescribe at least three courses in one definite subject.

GROUP I. ANCIENT LANGUAGES

First Year

PRESCRIBED SUBJECTS

LATIN 1. *Four hours weekly.*
Livy; Terence; Catullus; Vergil.
Prose Composition.
Private Reading: Cicero; Vergil.

GREEK 1. *Four hours weekly.*
Xenophon; Plato; Herodotus.
Prose Composition.
Private Reading: Plato, *Crito;* Homer, *Odyssey,* two books.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly, first half-year.*
Solid Geometry.
Advanced Algebra.

NATURAL HISTORY. *Three hours weekly and laboratory, second half-year.*
Zoology.

Second Year

PRESCRIBED SUBJECTS

LATIN 2. *Three hours weekly.*
Tacitus; Pliny; Horace.
Private Reading: Tacitus; Horace.

GREEK 2. *Three hours weekly.*
Lysias; Andocides; Euripides.
Prose Composition.
Private Reading: Xenophon, *Hellenica,* book i; Euripides, *Cyclops.*

VOCAL TRAINING. *Weekly.*

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer: Spenser; Shakspere.
Private Reading.

HISTORY 3. *Three hours weekly.*

FRENCH or GERMAN ELEMENTS. *Four hours weekly.*
Essentials of Grammar.
Translation and Composition.

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three hours weekly; lectures and laboratory work.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

GERMAN *or* FRENCH ELEMENTS. *Four hours weekly.*
(As in second year.)

FORENSICS. *Weekly.*

SUBJECTS ADVISED

LATIN 3. *Three hours weekly.*
Lucretius: Vergil; Horace.
Roman Literature.
Private Reading: Cicero; Quintilian.

GREEK 3. *Three hours weekly.*
Plato; Lyric Poets; Sophocles.
Survey of Greek Literature.
Prose Composition.
Private Reading: Elegiac and Iambic Poets; Aeschylus.

ELECTIVE COURSE.* *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April.)*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

LATIN 4. *Three hours weekly.*
Petronius; Apuleius; Juvenal.
Private Life of the Romans.
Private Reading: Martial; Seneca; Roman Elegy.

GREEK 4. *Three hours weekly.*
Thucydides; Aristophanes.
Greek Life.
Private Reading: Demosthenes; Aristophanes.

TWO ELECTIVE COURSES.* *Six hours weekly.*

*For courses which may be taken as electives see page 192.

GROUP II. MODERN LANGUAGES

First Year

PRESCRIBED SUBJECTS

LATIN 1. *Four hours weekly.*
Livy; Terence; Catullus; Vergil.
Prose Composition.
Private Reading; Cicero; Vergil.

FRENCH 1 *or* GERMAN 1.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly, first half-year.*
Solid Geometry.
Advanced Algebra.

NATURAL HISTORY. *Three hours weekly and laboratory, second half-year.*
Zoology.

Second Year

PRESCRIBED SUBJECTS

LATIN 2. *Three hours weekly.*
Tacitus; Pliny; Horace.
Private Reading; Tacitus; Horace.

FRENCH 2. *Three hours weekly.*
The Nineteenth Century.
Selected Classics.
Literature. Composition.
Private Reading.

Or

GERMAN 2. *Three hours weekly.*
Classical Authors:
Schiller; Goethe.
Composition.
Private Reading.

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer: Spenser; Shakspere.
Private Reading.

HISTORY 3. *Three hours weekly.*

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

VOCAL TRAINING. *Weekly.*

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three hours weekly; lectures and laboratory.*
Elementary Mechanics.
Sound. Heat. Light.
Electricity. Magnetism.

GERMAN 2 *or* FRENCH 2. *Three hours weekly.*
(As in second year.)

FORENSICS. *Weekly.*

SUBJECTS ADVISED (THREE TO BE CHOSEN)

FRENCH 3 OR 4, AND 5. *Three hours weekly.*
Selected Classics, or
Development of the Novel.
Advanced Composition.

GERMAN 3. *Three hours weekly.*
Goethe's *Faust, Tasso, Iphigenie.*
History of Literature; Lyrics and Ballads.

Or

GERMAN 4. *Three hours weekly.*
Contemporary Literature.

ENGLISH LITERATURE 5. *Three hours weekly.*

SPANISH 1 *or* ITALIAN 1. *Three hours weekly.*
Essentials of Grammar.
Translation; Composition.

LATIN 3. *Three hours weekly.*
Lucretius; Vergil.
Roman Literature.
Private Reading: Cicero; Quintilian.

ELECTIVE COURSE.† *Three hours.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April).*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

TWO MODERN LANGUAGES. *Six hours weekly.*

TWO ELECTIVE COURSES.† *Six hours weekly.*

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

†For courses which may be taken as electives see page 192.

GROUP III. HISTORY AND POLITICAL ECONOMY

First Year

PRESCRIBED SUBJECTS

LATIN 1. *Four hours weekly.*
Livy; Terence; Catullus; Vergil.
Prose Composition.
Private Reading: Cicero, Vergil.

FRENCH 1 *or* GERMAN 1.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly, first half-year.*
Solid Geometry.
Advanced Algebra.

NATURAL HISTORY. *Three hours weekly and laboratory, second half-year.*
Zoology.

Second Year

PRESCRIBED SUBJECTS

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer: Spenser; Shakspere.
Private Reading.

HISTORY 1. *Three hours weekly.*
Ancient Greece.
Ancient Rome.

POLITICAL ECONOMY 1. *Three hours weekly.*
Economic History.
Elements of Economics.

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

VOCAL TRAINING. *Weekly.*

SUBJECT ADVISED

LATIN 2. *Three hours weekly.*
Tacitus; Pliny; Horace.
Private Reading: Tacitus; Horace.

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three hours weekly; lectures and laboratory.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

FORENSICS. *Weekly.*

SUBJECTS ADVISED

HISTORY 2. *Three hours weekly.*
European History.
[To be given in 1912-13.]

HISTORY 3. *Three hours weekly.*
English History.

POLITICAL ECONOMY 2. *Three hours weekly.*
Finance.
Economic Institutions.

ELECTIVE COURSE.† *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April.)*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

HISTORY. *Three hours weekly.*
American History.

POLITICAL ECONOMY 3. *Three hours weekly.*
Statistical Methods.
History of Economic Theory.

TWO ELECTIVE COURSES.† *Six hours weekly.*

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

†For courses which may be taken as electives see page 192.

GROUP IV. MATHEMATICS AND PHYSICS

First Year

PRESCRIBED SUBJECTS

CHEMISTRY 1. *Three lectures, six hours laboratory weekly.*
General Chemistry.

FRENCH 1 *or* GERMAN 1.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly.*
Solid Geometry.
Advanced Algebra.
Plane Analytic Geometry.

Second Year

PRESCRIBED SUBJECTS

MATHEMATICS 2. *Three hours weekly.*
Differential and Integral Calculus.

PHYSICS 1. *Three lectures, six hours laboratory weekly.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

VOCAL TRAINING. *Weekly.*

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer: Spenser, Shakspere.
Private Reading.

HISTORY 3. *Three hours weekly.*
Or
POLITICAL ECONOMY 1. *Three hours weekly.*
Economic History.
Elements of Economics.

Third Year

PRESCRIBED SUBJECTS

MATHEMATICS 3. *Three hours weekly.*
Differential and Integral Calculus.
Determinants.
Solid Analytic Geometry.
Projective Geometry.

PHYSICS 2. *Three lectures, six hours laboratory weekly.*
Elementary Mechanics.
Elementary Physical Optics.

FORENSICS. *Weekly.*

SUBJECTS ADVISED

GEOLOGY 1. *Three lectures, six hours laboratory weekly.*
Physiography.
Physical Geology.
Historical Geology.
Or
BIOLOGY 1. *Three lectures, six hours laboratory weekly.*
General Biology.
Embryology.
Or
CHEMISTRY 2. *Three lectures, six hours laboratory weekly.*
Advanced Inorganic Chemistry.

ELECTIVE COURSE.† *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECTS

PHILOSOPHY. *Three hours weekly (four hours, January to April.)*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

MATHEMATICS 4. *Three hours weekly.*

PHYSICS. 3. *Three lectures, six hours laboratory weekly.*

ELECTIVE COURSES† (to make up the requisite number of hours).

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*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

†For courses which may be taken as electives see page 192.

GROUP V. CHEMISTRY, BIOLOGY, AND GEOLOGY‡

First Year

PRESCRIBED SUBJECTS

CHEMISTRY 1. *Three lectures, six hours laboratory weekly.*
General Chemistry.

FRENCH 1 *or* GERMAN.* *Four hours weekly.*
Modern Prose.
Composition.
Private Reading.

PHYSICAL TRAINING.

ENGLISH COMPOSITION 1. *Three hours weekly.*
Principles of Rhetoric.
Rhetorical Analysis.
Practice in Writing.

MATHEMATICS 1. *Three hours weekly.*
Solid Geometry.
Advanced Algebra.
Plane Analytic Geometry.

Second Year

PRESCRIBED SUBJECTS

ENGLISH LITERATURE 1. *Three hours weekly.*
Outline History to 1600.
Chaucer; Spenser; Shakspere.
Private Reading.

GERMAN 1 *or* FRENCH 1.* *Four hours weekly.*
(As in first year.)

VOCAL TRAINING. *Weekly.*

TWO OF THE FOLLOWING

CHEMISTRY 2. *Three lectures, six hours laboratory weekly.*
Advanced Inorganic Chemistry.

BIOLOGY 1. *Three lectures, six hours laboratory weekly.*
General Biology.
Embryology.

GEOLOGY 1. *Three lectures, six hours laboratory weekly.*
Physiography.
Physical Geology.
Historical Geology.

MATHEMATICS 2. *Three hours weekly.*
Differential and Integral Calculus.

Third Year

PRESCRIBED SUBJECTS

PHYSICS 1. *Three lectures, six hours laboratory weekly.*
Elementary Mechanics.
Heat. Sound. Light.
Electricity. Magnetism.

HISTORY 3. *Three hours weekly.*
Or
POLITICAL ECONOMY 1. *Three hours weekly.*
Economic History.
Elements of Economics.

FORENSICS. *Weekly.*

NOTE.—If Political Economy be chosen, Biology 1 (see second year) may be taken in this year.

SUBJECTS ADVISED

CHEMISTRY 2. *Three lectures, six hours laboratory weekly.*
(As in second year.)
Or
CHEMISTRY 3. *Three lectures, six hours laboratory weekly.*
Chemistry of Carbon Compounds.
Or
BIOLOGY 2. *Three lectures, six hours laboratory weekly.*
Comparative Anatomy of Vertebrates.
Elements of Bacteriology.
Or
GEOLOGY 1. *Three lectures, six hours laboratory weekly.*
Or
GEOLOGY 2. *Three lectures, six hours laboratory weekly.*
Crystallography.
Descriptive Mineralogy.
Petrography.

ELECTIVE COURSE.† *Three hours weekly.*

Fourth Year

PRESCRIBED SUBJECT

PHILOSOPHY. *Three hours weekly (four hours, January to April.)*
Logic.
Psychology.
Ethics.

SUBJECTS ADVISED

TWO SCIENCES. *Six lectures, twelve hours laboratory weekly.*

ELECTIVE COURSE.† *Three hours weekly.*

*French and German Elements (as in Group I) are prescribed in the case of students who offer Greek for matriculation.

†For courses which may be taken as electives see page 192.

‡See statement as to requirements for the medical department on page 186.

Elective Courses

A student may take as an elective any course that he is prepared to enter. In addition to the courses already described under the separate groups, any of which may be chosen, electives are regularly offered in the following subjects:

Latin.
Greek.
Greek and Roman Life.
Classical Archæology.
Sanskrit.
Comparative Philology.
Hebrew.
English and Anglo-Saxon.
French.
German.
Spanish.
Italian.
Mathematics.
Chemistry.
Physical Chemistry.
Physics.
Astronomy.
Zoology.
Botany.
Geology.
History.
Political Economy.
Philosophy.
Psychology.
Drawing.

Before the summer vacation each student is expected to consult his Adviser with regard to the electives to be taken in the following academic year. Detailed information concerning the various courses will be found under Courses of Instruction, pages 106-168.

SYNOPSIS OF GROUPS

Group I	Group II	Group III	Group IV	Group V
FIRST YEAR				
Latin 1. Greek 1. English Composition 1. Mathematics 1. Natural History. Physical Training.	Latin 1. French 1 or German 1. English Composition 1. Mathematics 1. Natural History. Physical Training.	Latin 1. French 1 or German 1. English Composition 1. Mathematics 1. Natural History. Physical Training.	Chemistry 1. French 1 or German 1. English Composition 1. Mathematics 1. Physical Training.	Chemistry 1. French 1 or German 1. English Composition 1. Mathematics 1. Physical Training.
SECOND YEAR				
Latin 2. Greek 2. English Literature 1. French Elements or German Elements. History 3. Vocal Training.	Latin 2. German 1 or French 1. English Literature 1. History 3. French 2 or German 2. Vocal Training.	German 1 or French 1. English Literature 1. History 1. Political Economy 1. Vocal Training. --- Latin 2.	Mathematics 2. Physics 1. German 1 or French 1. English Literature 1. History 3 or Political Economy 1. Vocal Training.	English Literature 1. German 1 or French 1. Two of these: Biology 1. Geology 1. Chemistry 2. Mathematics 2. Vocal Training.
THIRD YEAR				
Physics 1. German Elements or French Elements. Forensics. --- Latin 3. Greek 3. An Elective.	Physics 1. German 2 or French 2. Forensics. --- Two Languages. An Elective.	Physics 1. Forensics. --- [History 2.] [1912-13.] History 3. Political Economy 2. An Elective.	Mathematics 3. Physics 2. Forensics. --- A Science. An Elective.	Physics 1. History 3 or Political Economy 1. Forensics. --- A Science. An Elective.
FOURTH YEAR				
Philosophy 1. --- Latin 4. Greek 4. Two Electives.	Philosophy 1. --- Two Modern Languages. Two Electives.	Philosophy 1. --- History 4. Political Economy 3. Two Electives.	Philosophy 1. --- Mathematics 4. Physics 3. Electives.	Philosophy 1. --- Two Sciences. An Elective.

SCHEDULE OF HOURS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday
9	English Composition 1. English Literature 3. French 2. Greek 2. Geology 1. German 2. Italian 1. Mathematics 2. Spanish 1.	Biology 1. Chemistry 1. French 3. Greek 4. History 1. [History 2]. History 3. Latin 1.	Chemistry 2. English Literature 2. English Literature 5. Geology 3. German 3. Physics 3. Political Economy 1. Latin 1.	Biology 1. Chemistry 1. French 3. Greek 4. History 1. [History 2]. History 3. Latin 1.	Biology 1. Chemistry 1. History 1. [History 2]. History 3. Latin 1.
10	Latin 2. Mathematics 1. Natural History. Philosophy 1. Physics 1.	English Composition 1. English Literature 3. French 2. Geology 1. German 2. Greek 2. Italian 1. Mathematics 2. Spanish 1.	Latin 2. Mathematics 1. Natural History. Philosophy 1. Physics 1.	Chemistry 2. English Literature 2. English Literature 5. Geology 3. German 3. Physics 3. Political Economy 1.	Latin 2. Mathematics 1. Natural History. Philosophy 1. Physics 1.
11	Biology 3. Chemistry 3. English Composition 1. English Literature 1. Greek 3. Mathematics 1. Mathematics 4. Physics 2. Political Economy 2.	Biology 3. Chemistry 3. English Composition 1. English Literature 1. Greek 3. Mathematics 1. Mathematics 4. Physics 2. Political Economy 2.	English Composition 1. English Literature 3. French 2. Geology 1. German 2. Greek 3. Mathematics 2. Italian 1. Spanish 1.	Biology 3. Chemistry 3. English Composition 1. English Literature 1. Greek 3. Mathematics 1. Mathematics 4. Physics 2. Political Economy 2.	Chemistry 2. English Literature 2. English Literature 5. French 5. Geology 3. German 3. Physics 3. Political Economy 1.
12	Biology 2. French 1. French Elements. Geology 2. German 1. German Elements. Greek 1. History 4. Latin 3. Mathematics 3.	Biology 2. French 1. French Elements. Geology 2. German 1. German Elements. Greek 1. History 4. Latin 3. Mathematics 3.	Biology 2. French 1. French Elements. Geology 2. German 1. German Elements. Greek 1. History 4. Latin 3. Mathematics 3. Political Economy 3.	French 1. French Elements. German 1. German Elements. Greek 1. Philosophy 1. (Psychology). (Jan.-Apr.). Political Economy 3.	French 7. Public Speaking 2. Political Economy 3.
1	No lectures or recitations of any kind may come at one o'clock.				
2	English Literature 4. Greek Elements 2. Laboratory (2-5).	Drawing (2-5). English Literature 4. Greek Elements 2. Laboratory (2-5).	Drawing (2-5). Greek Elements 2.	Laboratory (2-5).	Laboratory (2-5).
3	English Literature 6. German 4. Italian 2. Latin 4. Spanish 2.	English Literature 6. German 4. Italian 2. Latin 4. Spanish 2.		English Literature 6. German 4. Italian 2. Latin 4. Spanish 2.	
4	French 4.	French 4.			

REQUISITES FOR THE DEGREE OF BACHELOR OF ARTS

As evidence that the collegiate course has been successfully completed, the degree of Bachelor of Arts is conferred at its close. The degree signifies in the case of every recipient such instruction in ancient and modern languages, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education.

Twenty courses are required for graduation, and no combination of studies is accepted which does not include three courses in one subject and two courses in another subject.*

All candidates for a degree take the following prescribed courses, which are for one year unless otherwise noted:

Rhetoric.
English Literature.
French.
German.
History or (in Groups IV and V) Political Economy.
Physics.
Mathematics—
  In Groups I, II, and III, a half-year.
  In Groups IV and V, one year.
Philosophy.
Vocal Training.
Forensics.
Physical Exercises.
A Laboratory Course—
  In Groups I, II, and III, Natural History (a half-year).
  In Groups IV and V, Chemistry and Physics.

*The "standard course" of study consists of three meetings, of one hour each, weekly through the year. In certain cases a course requires four hours a week.

The remaining courses necessary to complete the number required are chosen, subject to the approval of the Adviser, in accordance with the schemes outlined under the several groups.

A student may be admitted to advanced standing, in accordance with the regulations given on page 206, but in all cases the candidate must pursue the last year of his undergraduate course in this institution.

In general, four years of residence are necessary for the completion of the courses required for a degree. A capable student may, however, complete this work in three years. Such a student may—

(1) anticipate certain of the courses by special examination at entrance.*

The courses that may be thus absolved are first-year courses in languages (except English), in Mathematics, and in Chemistry; under ordinary circumstances a student is not allowed to anticipate at entrance more than two courses.

The examinations for absolving courses at entrance will be held at or near the time of the regular matriculation examinations in June and September, and those who wish to anticipate courses *must make application, and take the examination, in the June or September next preceding entrance into the University.* In case any condition is incurred in the September examination, it may not be made up until the September examination of the following year.

The application must be in the hands of the Registrar of the University *at least one week before the examination.*

(2) present himself, at the beginning of an academic year, for examination in a single course, provided the Committee on Admission and Advanced Standing, being satisfied that the student can obtain competent instruction, has authorized him, in advance, to prepare this course during the summer vacation.*

In all such cases the instructor must be approved by the examiner before whom the student is to come, and must not be changed except with the examiner's consent, and the instruction must conform to the directions of the examiner in (*a*) the

*Forms of application for these privileges are provided and must be obtained from the Registrar.

number of hours per week and the number of weeks, and (*b*) the amount and quality of the work done. The instruction must be regular and systematic, and must approximate in number of hours the time given to the course in the university. It must constitute a full equivalent of that course.

The examination will be both oral and written, and must be reported to the Registrar upon the usual blank. The time for the examination will be determined by the Committee.

(3) take, under certain conditions, in any year of residence except the first, a greater number of courses than is called for in the program.

Students who give evidence of especial ability by passing at entrance one or two courses for advanced standing, or by attaining a high grade in the scholarship examination, or by submitting evidence of exceptional proficiency from the school in which they were prepared for college, may be permitted to take in the first year one or more courses additional to the number scheduled for that year.

(4) offer nineteen courses for graduation instead of twenty, in accordance with the following provision:

In case a student has an average of not less than 9 for the work of his third year, and has not received a mark as low as 7 for any of his courses since admission to the university, he need offer only nineteen courses for graduation.

A student whose average in his studies for each of his last two years has not been less than 9, and who has not received a mark less than 7.5 for any of his courses during his last three years, shall receive the degree WITH HONOR.

Special students who have been in residence at least two years, and who have completed their work in a satisfactory manner, may receive certificates stating the facts and signed by the President of the University.

COMMITTEES AND ADVISERS

Standing Committees. The Board of Collegiate Studies appoints four standing committees:

1. The Executive Committee, which has charge of such matters pertaining to discipline and general administration as may be delegated to it by the Board of Collegiate Studies.
2. The Committee on Admission and Advanced Standing.
3. The Committee on Scholarships and Honors.
4. The Committee on Assignment of Advisers.

The Dean of the College Faculty is *ex officio* a member of each of these.

Advisers. When an undergraduate student is admitted to the university, he is assigned to an Adviser by the standing committee charged with this duty, and he will, under ordinary circumstances, remain under the direction of the same Adviser during his whole course. The approval of the Adviser is necessary before the student can enter upon any course of study; no instructor will receive into a class a student who does not bring with him (in a book provided for that purpose) assurance that his Adviser approves his pursuing the study at that time, and no student is allowed, without the consent of his Adviser, to discontinue any work. Each Adviser endeavors to establish relations of friendliness and confidence with the students assigned to his care; he not only gives counsel in regard to the selection of studies, but promotes the welfare of his students in every practicable way.

REQUIREMENTS FOR ADMISSION

Those who wish to pursue undergraduate courses in this university should apply to the Registrar for a blank form of "Application for Admission," which must be filled up and *returned to the Registrar one week at least before the time set for the entrance examinations.* These examinations are held at the university in June and September of each year.

To accommodate those who wish to take their examinations elsewhere, the university will accept certificates from the College Entrance Examination Board for subjects passed in accordance with its regulations. (See page 206.)

APPLICANTS FOR ADMISSION

Those who wish to become candidates for the degree of Bachelor of Arts must present evidence of a satisfactory knowledge of the following subjects:

Mathematics.	Greek, or French and German.
English.	Physical Geography, or a science such as Botany, Chemistry, or Physics.
History.	
Latin.	Free-hand Drawing.

Details of the requirements will be found in the following pages:

To show that he has a satisfactory knowledge of these subjects the applicant must present evidence of two kinds:

1. He must present certified statements of the successful completion of courses in the subjects required. These statements should specify the number of weeks and the number of hours per week that the applicant has given to the study of each subject, and the amount of ground covered in each. The authors read in each language should be specified, and the statement as to science should show that the student did laboratory work.

Blank spaces for these certified statements will be found in the form of "Application for Admission" referred to above, and these should be filled and signed by the teacher under whom the applicant has prepared for college, or by the head of the school.

2. If these statements are satisfactory, the applicant will be admitted to the matriculation examination in Mathematics, History, and the several languages, but will not be required to take an examination in Physical Geography or Science, or in Drawing.

If the statements are unsatisfactory, the Committee on Admission will prescribe such conditions as may be necessary. An applicant who has not had a satisfactory course in Drawing, will, if admitted, be required to take the course offered by the university.

Applicants are received without examination from certain schools in or near the City of Baltimore which have been approved by the Board of Collegiate Studies, provided their "Applications" fully and satisfactorily cover the requirements for admission.

In the case of other schools, and in the case of candidates from approved schools whose certificates are not fully satisfactory, examinations are required, either upon all the subjects necessary for matriculation, or upon selected portions of these subjects, at the discretion of the Committee on Admission.

Division of the Matriculation Examinations

The applicant may pass a part of the examinations one year before his admission to the university and receive credit, under the following conditions:

In his application *he must distinctly declare his intention to divide the examinations.* The subjects passed will not count towards matriculation unless the applicant offers the remaining subjects within the ensuing year. The first part of the divided examination will be confined to

the following subjects, of which the applicant will be expected to pass in the *first three at least:*

English (*a*).	French or
Algebra (*a*).	German.
Latin I.	History of the United States or
Plane Geometry.	of Greece.
Greek (*a*).	History of England or of Rome.

Requirements for Matriculation

1. Mathematics.—Algebra; Plane Geometry; Plane Trigonometry.

The requirements in Algebra are as follows:

(*a*). To Quadratics including the four fundamental rules, the use of parentheses, factoring, highest common factor, lowest common multiple, complex fractions, equations of the first degree in one or more unknown quantities, and problems leading to such equations, inequalities, radicals, and the use of fractional and negative exponents.

(*b*). Quadratics and beyond, including quadratic equations in one and two unknown quantities, and problems leading to such equations, the theory of quadratic equations in one unknown quantity, ratio and proportion, the progressions, the elementary treatment of permutations and combinations, the binomial theorem for positive integral exponents, and the use of logarithms.

The subjects required in Plane Geometry and in Trigonometry are those treated in the ordinary text-books.

2. English.—The examination consists of two parts:

a. Reading. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—perhaps ten or fifteen—set before him in the examination paper. These topics are selected with reference to certain books, a list of which is given below. This part of the examination is designed, primarily, to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

The books prescribed for this part of the examination are:

In 1911 and 1912: Group I (*two* to be selected).

Shakespeare's *As You Like It, Henry V, Julius Cæsar, The Merchant of Venice, Twelfth Night.*

Group II (*one* to be selected).

Bacon's *Essays;* Bunyan's *The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers* in *The Spectator;* Franklin's *Autobiography.*

Group III (*one* to be selected).

Chaucer's *Prologue; Spenser's Fœrie Queene* (Book I); Pope's *The Rape of the Lock;* Goldsmith's *The Deserted Village;* Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (*two* to be selected).

Goldsmith's *The Vicar of Wakefield;* Scott's *Ivanhoe;* Scott's *Quentin Durward;* Hawthorne's *The House of the Seven Gables;* Thackeray's *Henry Esmond;* Mrs. Gaskell's Cranford; Dickens's *A Tale of Two Cities;* George Eliot's *Silas Marner;* Blackmore's *Lorna Doone.*

Group V (*one* to be selected).

Irving's *Sketch Book;* Lamb's *Essays of Elia;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *The Hero as Poet, The Hero as Man of Letters,* and *The Hero as King;* Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies.*

Group VI (*two* to be selected).

Coleridge's *The Ancient Mariner;* Scott's *The Lady of the Lake;* Byron's *Mazeppa* and *The Prisoner of Chillon;* Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macauley's *Lays of Ancient Rome;* Poe's *Poems;* Lowell's *The Vision of Sir Launfal;* Arnold's *Sohrab and Rustum;* Longfellow's *The Courtship of Miles Standish;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, Pheidippides.*

In 1912, Tennyson's *The Princess* will be substituted for the three *Idylls of the King.*

In 1913 *the examination will be based upon the recommendations of the National Conference on Uniform Entrance Requirements in English, which met February* 22, 1909. *A statement of these recommendations can be obtained by application to the Registrar.*

b. Study and Practice. This part of the examination presupposes the careful study of each of the works named below. The examinations will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination are:

In 1911 and 1912: Shakespeare's *Macbeth; Milton's L'Allegro. Il Penseroso*, and *Comus;* Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macauley's *Life of Johnson*, or Carlyle's *Essay on Burns.*

In 1913 *the examination will be based upon the recommendations of the National Conference on Uniform Entrance Requirements in English, which met February* 22, 1909. *A statement of these recommendations can be obtained by application to the Registrar.*

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be memorized. The essentials of English grammar should not be neglected in preparatory study.

No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

Although candidates will be permitted to take the entire examination at the time of entrance, it is strongly recommended that Part *a* be taken as a preliminary examination and Part *b* as a final examination. Candidates will thus have an opportunity to make up deficiencies which may be discovered at the preliminary examination, and to enter the university without a condition in English.

3. HISTORY. The outlines of the History of England and the United States, or of the History of Greece and Rome, and the outlines of the geography of these countries.

4. LATIN. I. *Amount and Range of the Reading Required.*

a. The Latin reading required is not less *in amount* than Cæsar, Gallic War, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I-VI.

(*b*) The amount of reading specified above should be selected by the schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. *Subjects and Scope of the Examinations*

(*a*) *Translation at Sight.* Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

(*b*) *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

(*c*) *Grammar and Composition.* The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

5. GREEK.—A systematic course of instruction extending over at least three school years is presupposed. The applicant should have read the following texts:

Xenophon, *Anabasis*, at least four books.

Homer, *Iliad*, at least four books, *or Odyssey*, at least six books.

The examination includes three elements:

(*a*) Greek Grammar (both forms and syntax), based largely on Xenophon's *Anabasis*, Books I and II.

(*b*) Translation into English of Attic prose and of Homer, together with questions suggested by the text, including questions on Homeric life and the prosody of the Homeric poems. A part of the translation may be at sight, and in all translations simple, idiomatic English will be required.

(*c*) Translation into Greek (with accents) of a passage of easy connected English prose.

In case the examination is divided, as provided for on page 199, (*a*) should be offered at the preliminary examination.

Applicants not offering Greek must meet the following requirements in French and German:

6. FRENCH.—The requirements in French presuppose a systematic course extending over at least two school years, at the end of which time the student should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions on the rudiments of French grammar. The examination, *which may not be divided*, comprises:

(*a*) Questions on the elements of French grammar, including the inflection of adjectives, participles, and pronouns;

the conjugation of verbs; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence; and the elementary rules of syntax.

(*b*) The translation into French of short sentences illustrative of the rules of grammar, and of a short paragraph based on a French text given. In place of the translation of this paragraph, the candidate may substitute an original exercise in French on a subject set by the examiner.

(*c*) The translation, at sight, of easy French prose.

(*d*) An oral exercise in pronunciation.

The candidate should have read from 400 to 500 pages of French prose taken from the texts edited for elementary use, as listed by the leading publishers; especially those of the works of About, Bruno, Dumas, Erckmann-Chatrian, Halévy, Laboulaye, Labiche and Martin, Malot, Sand, and Verne. Grammars recommended are Fraser and Squair's, part I, Longman's, Chardenal's Complete French Course, and Perry and Reum's French Book.

7. GERMAN.—The requirements in German presuppose at least two years of school work under approved methods, with four recitations weekly, and the reading of a minimum of 300 pages of easy dialogue and narrative prose.

Candidates are expected to give particular attention to pronunciation, to the acquisition of an elementary German vocabulary, and to an accurate knowledge of the rudiments of German grammar, in quantity corresponding to Vos's *Essentials of German*.

The examination, *which may not be divided*, comprises:

(*a*) Translation at sight of passages of simple dialogue and narrative prose. Help will be given on unusual words and constructions.

(*b*) Questions on grammatical forms and syntax. These will, as a rule, be based upon the passages assigned for translation.

(*c*) Translation into German of easy English from the language of every-day life. In addition, a brief rendering of English into German, based on the passages described under (*a*), may be required.

Selections may be made from such texts as the following:

Baumbach, *Sommermärchen*, *Der Schwiegersohn*. Benedix, *Eigensinn*, *Der Prozess*. Gerstäcker, *Germelshausen*. Hauff, *Das kalte Herz*. Heyse, *L'Arrabbiata*. Riehl, *Burg Neideck*. Saar, *Die Steinklopfer*. Seidel, *Leberecht Hühnchen*. Stifter, *Das Haidedorf*. Storm, *Immensee*, *In St. Jürgen*. Sudermann, *Teja*. Wildenbruch, *Das edle Blut*, *Der Letzte*.

Applicants for Advanced Standing

A student may be admitted to advanced standing at entrance by passing the necessary examinations. Forms of application for this privilege and all necessary information may be obtained from the Registrar. Under ordinary circumstances a student is not allowed to anticipate at entrance more than two courses, which may be first-year courses in languages (except English) and in mathematics.

A student entering from another college of good standing may be credited with work done there, provided he submits certificates satisfactory to the Committee on Admission and Advanced Standing.

Special Students

The university is ready to receive as special students those who are qualified by age, character, attainments, and habits of study, to attend its classes and lectures with profit to themselves and the institution. Such persons may be admitted, without matriculation, to a limited number of undergraduate courses; but the privilege once accorded will be forfeited if the student is found unworthy of it.

The requirements for admission as a special student are that the applicant shall pass such examinations, and shall present such other evidence of fitness to pursue the desired courses as may in each case be required by the Committee on Admission. Unless excused for some definite reason, the applicant will be required to satisfy the matriculation requirements in English, in French or German, and in either Latin or Mathematics. In the past, many excellent students have been thus enrolled, among whom not a few have subsequently changed their plans, passed the matriculation examinations, and at length received the degree of Bachelor of Arts.

Admission on these terms will not be granted unless the applicant be of some maturity, of serious intent, and of proved ability, and can satisfy the Committee on Admission that there are valid grounds for admitting him without full matriculation. A student cannot be admitted as a special student merely on the ground that he is unable to meet the full matriculation requirements.

College Entrance Examination Board

The College Entrance Examination Board holds examinations at numerous places in the country about the third week of June in each year, information in regard to which may be obtained by addressing The College Entrance Examination Board, Post Office Sub-Station 84, New York.

These examinations, if passed with a mark of not less than 60 per cent., will be accepted for admission, in accordance with the following scheme of equivalents:

THE JOHNS HOPKINS UNIVERSITY	COLLEGE ENTRANCE EXAMINATION BOARD
Algebra *a*.	Mathematics *a*, *i*.
Algebra *b*.	Mathematics *a*, *ii*.
Plane Geometry.	Mathematics *c*.
Plane Trigonometry.	Mathematics *f*.
Latin I.	Latin 1, 3, 4.
Latin II.	Latin 2, 5.
Greek *a*.	Greek *a*, *b*.
Greek *b* and *c*.	Greek *c*, *f*, *g* and *h*.
French.	Elementary Requirement.
German.	Elementary Requirement.
English *a*.	English *a*.
English *b*.	English *b*.
History of Greece and Rome	History *a*.
History of England and the United States.	History *c*, *d*.

Undergraduate Entrance Examinations, 1911*

Tuesday, June 6 and September 26.

9–11 a. m.—Algebra.
11.30 a. m.–1 p. m.—Trigonometry.
3–4 p. m.—English *a*.
4–5 p. m.—English *b*.

Wednesday, June 7 and September 27.

9 a. m.–12 m.—Plane Geometry.
3–5 p. m.—History.

Thursday, June 8 and September 28.

9–11 a. m.—Latin I.
3–5 p. m.—Latin II.

Friday, June 9 and September 29.

9–11 a. m.—Greek and German.
3–5 p. m.—Greek and French.

*In 1912 the examinations will begin two days earlier at each season.

II. FACULTY OF MEDICINE

Terms of Admission

The courses in medicine given in this university are planned for the professional education of such students as are especially fitted for it by having received preliminary training in the liberal arts, and especially in the sciences underlying medicine, including physics, chemistry and biology. Men and women are admitted upon the same terms.

The following classes of students are received as candidates for the degree of Doctor of Medicine:

1. Those who have completed the chemical-biological course in this university (Group V) leading to the degree of Bachelor of Arts.

2. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have acquaintance with Latin and a reading knowledge of French and German; (*b*) That they have such knowledge of physics, chemistry, and biology as may be obtained by a year's course in these subjects when accompanied by laboratory work.

In biology the candidate, in addition to lectures and recitations, should have followed for at least a year a laboratory course of six or more hours a week in the structure, life-history, and vital activities of selected types of animal and vegetable life. Courses in botany or zoology will be accepted, provided the laboratory work has been adequate. It is desirable also that candidates should have taken a laboratory course in embryology.

The candidate should have followed a course in general chemistry for at least a year. This should include laboratory work, for five hours a week through the year, together with lectures and class-room work covering the outlines of inorganic and the elements of organic chemistry. A good knowledge of the subject as presented in Remsen's "Introduction to the Study of Chemistry" may be regarded as the minimum requirement, although fuller knowledge is desirable.

In physics, the candidate should have followed a collegiate course for at least one year. This should include four hours a week of class-room work and at least three hours a week of

quantitative work in the laboratory. Special attention should be given to theoretical mechanics and to the mechanical and electrical experiments.

In Latin the candidate should have studied Latin grammar and should possess at least such knowledge of the language as may be acquired by reading four books of Cæsar or their equivalent.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school, and the knowledge of French, German, Latin, physics, chemistry, and biology above indicated.

Applicants for admission will receive blanks to be filled out relating to their previous courses of study. They are required to furnish certificates from officers of the colleges or scientific schools in which they have studied, as to the courses pursued in physics, chemistry, and biology. If the certificates are satisfactory, no examination in these subjects will be required from those who possess a degree in arts or in science from an approved college or scientific school.

Hearers and special workers, not candidates for a degree, will be received at the discretion of the Faculty.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission as regards preliminary training have been fulfilled, (2) that they have satisfactorily completed medical courses equivalent in kind and amount to those given here in the year or years preceding that to which admission is desired, and (3) must pass examinations, at the beginning of the session in October, in all those subjects that have been already pursued by the class to which admission is sought. Certificates of standing elsewhere cannot be accepted in place of these examinations.

General Plan of Instruction

The course of instruction is planned for those who have received a liberal education and the training in physics, chemistry, and general biology which has been specified. The required period of study for the degree of Doctor of Medicine is four years. The academic year begins on the first of October and ends about the middle of June. There are short recesses at Christmas and Easter.

The first two years of the course are devoted mainly to the fundamental medical sciences, a large part of the time being spent in practical work in the laboratories. In the last two years, medicine, surgery, obstetrics, and the various specialties are studied in the clinical laboratories, the dispensary, and the wards of the hospital.

Throughout the entire course opportunity is given to pursue elective courses. In each year a certain number of courses are required, but, in addition, the student must select from a group of electives enough work to make up from twenty-five to thirty hours of work a week.

The principal required studies of the first year are anatomy (including normal histology), physiology, physiological chemistry and bacteriology. In the second year anatomy and physiology are continued, and general pathology, pathological anatomy, pharmacology, and hygiene are studied.

During the third year the general principles of medicine, surgery, obstetrics, and gynecology are studied, and clinical instruction is given in these subjects and in nervous diseases. Leading features of the work of this year are the courses in the clinical laboratories and practical work in the dispensary.

During the fourth year the practical study of medicine and surgery is continued, and instruction is given in the various special branches, viz.: dermatology, genito-urinary diseases, orthopedic surgery, laryngology and rhinology, ophthalmology and otology, pediatrics, and psychiatry. In

this year the students serve as clinical clerks and surgical dressers in the wards of the hospital and are in daily attendance at special classes in the dispensary. They also have an opportunity to take various elective courses which are described specifically in the catalogue of the medical department. For the ward and dispensary work the class is divided into small groups.

Instruction in hygiene, medical zoology, forensic medicine, and medical history is provided during the course.

Work in the dissecting room, in the laboratories, and at the bedside, demonstrations, clinics, lectures, and recitations are the main features of the methods of instruction. Simple didactic lectures occupy a subsidiary position, as compared with instruction by recitations and demonstrations and especially by practical work in the various laboratories, in the hospital wards, and in the dispensary.

Courses for Graduates in Medicine

Courses of instruction for graduates in medicine are given throughout the year. These courses are in Anatomy, Histology and Organology, Pathology, Bacteriology, Pharmacology and Toxicology, Physiology, Neurology, Neurological Technique, Embryology, Physiological Chemistry, Clinical Microscopy, Medicine, Gynecology, Serum Diagnosis, Pediatrics, Obstetrics, Gynecological Pathology, Surgical Pathology, Orthopedic Surgery, Genito-Urinary Surgery, X-Ray Diagnosis and Therapeutics, Cystoscopy, and Ophthalmology and Otology. The instruction is intended to meet the requirements of practitioners of medicine, and is almost wholly of a practical character. It includes laboratory courses, demonstrations, beside teaching, and clinics in the wards, dispensary, amphitheatre, and operating rooms of the hospital.

Scholarships

THE JOSEPH KERNOCHAN GARR SCHOLARSHIP

Through the kindness of Mrs. Henry Lee Smith, of Baltimore, the faculty of the medical department is enabled to grant a scholarship amounting to $100 a year to a deserving student. The scholarship is known as "The Joseph Kernochan Garr Scholarship."

HOPKINS SCHOLARSHIPS

Six Hopkins Scholarships are annually open to students from North Carolina and Virginia. These scholarships grant free tuition for one year. Three are given to fourth-year students, two to third-year students, and one to a second-year student. Applications should be addressed to the President of the University *before May* 1, in accordance with a prescribed form.

Detailed statements as to the courses of instruction and other information are given in the annual Catalogue and Announcement, which will be sent upon application to the Registrar of the school.

Group II (*one* to be selected).

Bacon's *Essays;* Bunyan's *The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers* in *The Spectator;* Franklin's *Autobiography.*

Group III (*one* to be selected).

Chaucer's *Prologue; Spenser's Fœrie Queene* (Book I); Pope's *The Rape of the Lock;* Goldsmith's *The Deserted Village;* Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (*two* to be selected).

Goldsmith's *The Vicar of Wakefield;* Scott's *Ivanhoe;* Scott's *Quentin Durward;* Hawthorne's *The House of the Seven Gables;* Thackeray's *Henry Esmond;* Mrs. Gaskell's Cranford; Dickens's *A Tale of Two Cities;* George Eliot's *Silas Marner;* Blackmore's *Lorna Doone.*

Group V (*one* to be selected).

Irving's *Sketch Book;* Lamb's *Essays of Elia;* De Quincey's *Joan of Arc* and *The English Mail Coach;* Carlyle's *The Hero as Poet, The Hero as Man of Letters,* and *The Hero as King;* Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies.*

Group VI (*two* to be selected).

Coleridge's *The Ancient Mariner;* Scott's *The Lady of the Lake;* Byron's *Maseppa* and *The Prisoner of Chillon;* Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macauley's *Lays of Ancient Rome;* Poe's *Poems;* Lowell's *The Vision of Sir Launfal;* Arnold's *Sohrab and Rustum;* Longfellow's *The Courtship of Miles Standish;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, Pheidippides.*

In 1912, Tennyson's *The Princess* will be substituted for the three *Idylls of the King.*

In 1913 *the examination will be based upon the recommendations of the National Conference on Uniform Entrance Requirements in English, which met February* 22, 1909. *A statement of these recommendations can be obtained by application to the Registrar.*

b. Study and Practice. This part of the examination presupposes the careful study of each of the works named below. The examinations will be upon subject-matter, form, and structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination are:

In 1911 and 1912: Shakespeare's *Macbeth; Milton's L'Allegro. Il Penseroso*, and *Comus;* Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macauley's *Life of Johnson*, or Carlyle's *Essay on Burns.*

In 1913 *the examination will be based upon the recommendations of the National Conference on Uniform Entrance Requirements in English, which met February* 22, 1909. *A statement of these recommendations can be obtained by application to the Registrar.*

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be memorized. The essentials of English grammar should not be neglected in preparatory study.

No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

Although candidates will be permitted to take the entire examination at the time of entrance, it is strongly recommended that Part *a* be taken as a preliminary examination and Part *b* as a final examination. Candidates will thus have an opportunity to make up deficiencies which may be discovered at the preliminary examination, and to enter the university without a condition in English.

3. HISTORY. The outlines of the History of England and the United States, or of the History of Greece and Rome, and the outlines of the geography of these countries.

4. LATIN. I. *Amount and Range of the Reading Required.*

a. The Latin reading required is not less *in amount* than Cæsar, Gallic War, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I-VI.

(*b*) The amount of reading specified above should be selected by the schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. *Subjects and Scope of the Examinations*

(*a*) *Translation at Sight.* Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

(*b*) *Prescribed Reading.* Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

(*c*) *Grammar and Composition.* The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examination in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

5. GREEK.—A systematic course of instruction extending over at least three school years is presupposed. The applicant should have read the following texts:

Xenophon, *Anabasis*, at least four books.

Homer, *Iliad*, at least four books, *or Odyssey*, at least six books.

The examination includes three elements:

(*a*) Greek Grammar (both forms and syntax), based largely on Xenophon's *Anabasis*, Books I and II.

(*b*) Translation into English of Attic prose and of Homer, together with questions suggested by the text, including questions on Homeric life and the prosody of the Homeric poems. A part of the translation may be at sight, and in all translations simple, idiomatic English will be required.

(*c*) Translation into Greek (with accents) of a passage of easy connected English prose.

In case the examination is divided, as provided for on page 199, (*a*) should be offered at the preliminary examination.

Applicants not offering Greek must meet the following requirements in French and German:

6. FRENCH.—The requirements in French presuppose a systematic course extending over at least two school years, at the end of which time the student should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions on the rudiments of French grammar. The examination, *which may not be divided*, comprises:

(*a*) Questions on the elements of French grammar, including the inflection of adjectives, participles, and pronouns;

the conjugation of verbs; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence; and the elementary rules of syntax.

(*b*) The translation into French of short sentences illustrative of the rules of grammar, and of a short paragraph based on a French text given. In place of the translation of this paragraph, the candidate may substitute an original exercise in French on a subject set by the examiner.

(*c*) The translation, at sight, of easy French prose.

(*d*) An oral exercise in pronunciation.

The candidate should have read from 400 to 500 pages of French prose taken from the texts edited for elementary use, as listed by the leading publishers; especially those of the works of About, Bruno, Dumas, Erckmann-Chatrian, Halévy, Laboulaye, Labiche and Martin, Malot, Sand, and Verne. Grammars recommended are Fraser and Squair's, part I, Longman's, Chardenal's Complete French Course, and Perry and Reum's French Book.

7. GERMAN.—The requirements in German presuppose at least two years of school work under approved methods, with four recitations weekly, and the reading of a minimum of 300 pages of easy dialogue and narrative prose.

Candidates are expected to give particular attention to pronunciation, to the acquisition of an elementary German vocabulary, and to an accurate knowledge of the rudiments of German grammar, in quantity corresponding to Vos's *Essentials of German*.

The examination, *which may not be divided*, comprises:

(*a*) Translation at sight of passages of simple dialogue and narrative prose. Help will be given on unusual words and constructions.

(*b*) Questions on grammatical forms and syntax. These will, as a rule, be based upon the passages assigned for translation.

(*c*) Translation into German of easy English from the language of every-day life. In addition, a brief rendering of English into German, based on the passages described under (*a*), may be required.

Selections may be made from such texts as the following:

Baumbach, *Sommermärchen*, *Der Schwiegersohn*. Benedix, *Eigensinn*, *Der Prozess*. Gerstäcker, *Germelshausen*. Hauff, *Das kalte Herz*. Heyse, *L'Arrabbiata*. Riehl, *Burg Neideck*. Saar, *Die Steinklopfer*. Seidel, *Leberecht Hühnchen*. Stifter, *Das Haidedorf*. Storm, *Immensee*, *In St. Jürgen*. Sudermann, *Teja*. Wildenbruch, *Das edle Blut*, *Der Letzte*.

FELLOWSHIPS

Fellowships by Courtesy

The Academic Council may, at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Gentlemen who are, or who have been, teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this university and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by special vote.

University Fellowships

Twenty fellowships, each yielding five hundred dollars but not exempting the holder from the charges for tuition, are annually awarded.

The system of fellowships was instituted for the purpose of affording to young men of talent from any place an opportunity of continuing their studies in the Johns Hopkins University, while looking forward to positions as professors, teachers, and investigators, or to other literary and scientific vocations. The fellowships are given to students who wish to follow systematically through the year the instructions of the teachers here engaged, and those who are appointed are expected to proceed to the degree of Doctor of Philosophy. The appointments are made not merely in recognition of good work already done, but as aids and incentives to good work in the

future; in other words, the fellowships are not so much honors and prizes bestowed for past achievements, as helps to further progress and stepping-stones to honorable intellectual careers. They are not offered to those who are definitely looking forward to the practice of any one of the three learned professions (though such persons are not formally excluded from the competition), but are bestowed almost exclusively on persons desirous of becoming teachers of science and literature, or of devoting their lives to special branches of learning which lie outside of the ordinary studies of the lawyer, the physician, and the minister.

Each candidate is expected to submit his college diploma or other certificate of proficiency from the institution where he has been taught, with recommendations from those who are qualified to speak of his character and attainments. But this is only introductory. He must also submit, orally or in writing, such evidence of his past success in study and of his plans for the future, together with such examples of his literary or scientific work, as will enable the professors to judge of his fitness for the post. The examination is, indeed, in a certain sense competitive, but not with uniform tests, nor by formal questions submitted to the candidates. First, the head of a given department considers, with such counsel as he may command, the applicant's record. The professors then collectively deliberate on the nominations made by individual members of their body. The list upon which they agree, with the reasons for it, is finally submitted by the President of the University to the Executive Committee, and by them to the Trustees for final registration and appointment. By all these precautions the highest results which were anticipated have been secured. A company of most promising students has been brought together, and their ability as teachers and scholars has been recognized by calls they have received to permanent and desirable posts in various parts of the country.

The number of applications for fellowships has hitherto been very large, and it may have happened that some candidates have failed of appointment who were really superior to those selected. But, if so, this has resulted from the fact that a considerable number of applicants have each year forwarded to the university merely testimonials from their instructors, without examples of their own work, and, in consequence, the professors, from want of adequate knowledge, have possibly passed over candidates who may have been in the highest degree meritorious.

The applicants are notified of the result by means of a printed list of the successful candidates.

The absence of candidates from Baltimore has been no bar to their appointment, in cases where adequate evidence of their claims has been presented; but it is obvious, from the nature of the case, that graduate students residing in Baltimore must have better opportunities than others of making their powers known to the appointing board, and during the last few years the number of persons appointed, who had not previously been resident here, is very small.

Regulations

1. The application must be made *prior to May 1*, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees, at their meeting in June. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character, such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars. The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, to act when called upon as an examiner or as moderator in

the examination room, to give all his influence for the promotion of scholarship and good order, and in general to co-operate in upholding the efficiency of the University, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close of the year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the University, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. Usually not more than two fellows will be appointed in any department of study.

9. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

Adam T. Bruce Fellowship

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph. D., late fellow and instructor in this university, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

REGULATIONS

Candidates for the Bruce Fellowship must make application, in writing, to the President of the Johns Hopkins University *before the first of April*. They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors, who may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in biology at a place approved by the President of the University, and he shall, during the month of February in the year of his tenure of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during the tenure of the fellowship.

The holder shall not be more than thirty years of age at the date of his election.

The Bruce Fellow may be re-elected, but not oftener than twice, and he shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant, if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

WILLIAM S. RAYNER FELLOWSHIP

The Rayner Fellowship was founded in 1899 by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this university the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to ten thousand dollars, and the income is available for a fellowship, which is bestowed annually by the Academic Council upon an advanced student in the department of Semitic Languages.

The Edmund Law Rogers Fellowship

This endowment, the amount of which is ten thousand dollars, was established in 1910 by Mrs. Edmund Law Rogers and her daughter, Mrs. Kirby Flower Smith, in memory of the late Edmund Law Rogers of Baltimore, and is known as the Edmund Law Rogers Fellowship.

The fellowship, to which the University has added the privilege of exemption from tuition fees, is awarded annually for proficiency in both the Greek and the Latin Languages and Literatures. The candidate must have had at least two years of graduate study in the Johns Hopkins University, or have satisfied the examiners of his training and ability by written examinations and the submission of a thesis. In other respects, the conditions of the fellowship are the same as those applying to the University fellowships in this institution. Application must be made *prior to May* 1, in writing, to the President of the University.

SCHOLARSHIPS FOR GRADUATES

I. University Scholarships

For the encouragement of scholarship among those who have received the baccalaureate degree, and wish to continue their studies here, a number of University Scholarships are annually bestowed, as stated below:

1. Fifteen scholarships are open about the first of January to graduates of this or of other institutions, who have been studying here during the previous part of the session. Those who wish to be candidates must make formal application to the President, *about December 15*, stating where they have been previously trained and what studies they have pursued in this university. He will appoint a committee of five to consider the applications, and, with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

2. These scholarships entitle the holders to free tuition and are tenable for one year. They do not carry exemption from laboratory fees.

3. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this university.

4. The Board will reserve appointments, if worthy candidates do not offer.

II. Hopkins Scholarships

In the will of the founder of this university, his Trustees are requested to "establish, from time to time, such number of free scholarships in said university as may be judicious, and to distribute the said scholarships among such candidates from the States of Maryland, Virginia,

and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

Fifteen Hopkins Scholarships, entitling the holders to free tuition, are now awarded by the Academic Council to graduate students from Virginia, and fifteen to graduate students from North Carolina. Applications, in accordance with a prescribed form, must be filed at the President's office *prior to May* 1.

Students can be recognized as candidates only when actual residents of the State from which they desire to be appointed, during at least the year next preceding their enrolment in the university. If the appointing board is not sure as to the legal residence of any candidate, the point in question shall be determined by the Executive Committee of the Board of Trustees.

These scholarships are all bestowed for merit, and are tenable for the year subsequent to the appointment, the holders being re-eligible.

Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited, because of frequent or prolonged absence, defective scholarship, or unworthy conduct.

Scholarships made vacant by resignation, by forfeiture, or by the non-appearance of worthy candidates at the regular times of selection, may be bestowed by the appointing board, at their discretion, upon other candidates who are found worthy, provided that the principles of this foundation are not departed from.

Holders of scholarships are not exempt from laboratory fees.

ally be $25,000. The donor expressed the wish that "such lectures be given annually if possible, * * * and that persons of promise or prominence be selected to lecture, who are capable of interesting as well as instructing an audience." The lectureship was inaugurated in April, 1909, and three courses have been given, by Abbott Lawrence Lowell, George W. Prothero, and John B. Moore.

The Albert Shaw Lectureship

Dr. Albert Shaw, of New York, a graduate of this University, gives annually the sum of $250 as the honorarium of a lecturer on Diplomatic History. The lectures are given before the advanced students of history and political science, and eleven courses have been delivered, beginning in 1898. The lecturers, with two exceptions, have been alumni of the University.

In January, 1904, the Trustees decreed that certain chairs should bear the names of leading contributors to the Endowment Fund of 1902, as memorials of their liberality. In pursuance of this action four professorships have been thus designated: The B. N. Baker Professorship of Chemistry; the Francis White Professorship of Greek; the W. W. Spence Professorship of Semitic Languages; the Henry Walters Professorship of Zoology.

THE JOHNSTON SCHOLARSHIPS

These scholarships, of which there are three, known as the Henry E. Johnston Scholarship, the James Buchanan Johnston Scholarship, and the Henry E. Johnston, Jr. Scholarship, were founded in 1904 by Mrs. Harriet Lane Johnston, of Washington, formerly of Baltimore, in memory of her husband and her two sons. They are awarded annually by the Trustees on the recommendation of the Academic Council. The stipend of each scholarship is the income of thirty thousand dollars. They are offered primarily to young men who have given evidence of the power of independent research. The holders of the scholarships will be expected to devote themselves to study and research in their chosen subjects, though they may be required to do some teaching. Each one will be designated as the "Holder of the ..... Johnston Scholarship."

Regulations

Candidates for the Johnston Scholarships must make application, in writing, to the President of the University *before the first of April.* The applications must be accompanied by such evidence of the candidates' fitness as they may be able to present. The President will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees at their meeting in May.

Holders of the scholarships may not engage in teaching elsewhere.

The scholars will be appointed for one year; but, if their work should prove satisfactory, they will generally be reappointed.

FELLOWSHIPS

Fellowships by Courtesy

The Academic Council may, at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Gentlemen who are, or who have been, teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this university and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by special vote.

University Fellowships

Twenty fellowships, each yielding five hundred dollars but not exempting the holder from the charges for tuition, are annually awarded.

The system of fellowships was instituted for the purpose of affording to young men of talent from any place an opportunity of continuing their studies in the Johns Hopkins University, while looking forward to positions as professors, teachers, and investigators, or to other literary and scientific vocations. The fellowships are given to students who wish to follow systematically through the year the instructions of the teachers here engaged, and those who are appointed are expected to proceed to the degree of Doctor of Philosophy. The appointments are made not merely in recognition of good work already done, but as aids and incentives to good work in the

future; in other words, the fellowships are not so much honors and prizes bestowed for past achievements, as helps to further progress and stepping-stones to honorable intellectual careers. They are not offered to those who are definitely looking forward to the practice of any one of the three learned professions (though such persons are not formally excluded from the competition), but are bestowed almost exclusively on persons desirous of becoming teachers of science and literature, or of devoting their lives to special branches of learning which lie outside of the ordinary studies of the lawyer, the physician, and the minister.

Each candidate is expected to submit his college diploma or other certificate of proficiency from the institution where he has been taught, with recommendations from those who are qualified to speak of his character and attainments. But this is only introductory. He must also submit, orally or in writing, such evidence of his past success in study and of his plans for the future, together with such examples of his literary or scientific work, as will enable the professors to judge of his fitness for the post. The examination is, indeed, in a certain sense competitive, but not with uniform tests, nor by formal questions submitted to the candidates. First, the head of a given department considers, with such counsel as he may command, the applicant's record. The professors then collectively deliberate on the nominations made by individual members of their body. The list upon which they agree, with the reasons for it, is finally submitted by the President of the University to the Executive Committee, and by them to the Trustees for final registration and appointment. By all these precautions the highest results which were anticipated have been secured. A company of most promising students has been brought together, and their ability as teachers and scholars has been recognized by calls they have received to permanent and desirable posts in various parts of the country.

The number of applications for fellowships has hitherto been very large, and it may have happened that some candidates have failed of appointment who were really superior to those selected. But, if so, this has resulted from the fact that a considerable number of applicants have each year forwarded to the university merely testimonials from their instructors, without examples of their own work, and, in consequence, the professors, from want of adequate knowledge, have possibly passed over candidates who may have been in the highest degree meritorious.

The applicants are notified of the result by means of a printed list of the successful candidates.

The absence of candidates from Baltimore has been no bar to their appointment, in cases where adequate evidence of their claims has been presented; but it is obvious, from the nature of the case, that graduate students residing in Baltimore must have better opportunities than others of making their powers known to the appointing board, and during the last few years the number of persons appointed, who had not previously been resident here, is very small.

Regulations

1. The application must be made *prior to May 1*, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees, at their meeting in June. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character, such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars. The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of
to act when called upon as an examiner or as moderator in

the examination room, to give all his influence for the promotion of scholarship and good order, and in general to co-operate in upholding the efficiency of the University, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close of the year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the University, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. Usually not more than two fellows will be appointed in any department of study.

9. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

Adam T. Bruce Fellowship

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph. D., late fellow and instructor in this university, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

REGULATIONS

Candidates for the Bruce Fellowship must make application, in writing, to the President of the Johns Hopkins University *before the first of April.* They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors, who may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in biology at a place approved by the President of the University, and he shall, during the month of February in the year of his tenure of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during the tenure of the fellowship.

The holder shall not be more than thirty years of age at the date of his election.

The Bruce Fellow may be re-elected, but not oftener than twice, and he shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant, if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

WILLIAM S. RAYNER FELLOWSHIP

The Rayner Fellowship was founded in 1899 by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this university the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to ten thousand dollars, and the income is available for a fellowship, which is bestowed annually by the Academic Council upon an advanced student in the department of Semitic Languages.

The Edmund Law Rogers Fellowship

This endowment, the amount of which is ten thousand dollars, was established in 1910 by Mrs. Edmund Law Rogers and her daughter, Mrs. Kirby Flower Smith, in memory of the late Edmund Law Rogers of Baltimore, and is known as the Edmund Law Rogers Fellowship.

The fellowship, to which the University has added the privilege of exemption from tuition fees, is awarded annually for proficiency in both the Greek and the Latin Languages and Literatures. The candidate must have had at least two years of graduate study in the Johns Hopkins University, or have satisfied the examiners of his training and ability by written examinations and the submission of a thesis. In other respects, the conditions of the fellowship are the same as those applying to the University fellowships in this institution. Application must be made *prior to May* 1, in writing, to the President of the University.

SCHOLARSHIPS FOR GRADUATES

I. University Scholarships

For the encouragement of scholarship among those who have received the baccalaureate degree, and wish to continue their studies here, a number of University Scholarships are annually bestowed, as stated below:

1. Fifteen scholarships are open about the first of January to graduates of this or of other institutions, who have been studying here during the previous part of the session. Those who wish to be candidates must make formal application to the President, *about December 15*, stating where they have been previously trained and what studies they have pursued in this university. He will appoint a committee of five to consider the applications, and, with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

2. These scholarships entitle the holders to free tuition and are tenable for one year. They do not carry exemption from laboratory fees.

3. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this university.

4. The Board will reserve appointments, if worthy candidates do not offer.

II. Hopkins Scholarships

In the will of the founder of this university, his Trustees are requested to "establish, from time to time, such number of free scholarships in said university as may be judicious, and to distribute the said scholarships among candidates from the States of Maryland, Virginia,

and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

Fifteen Hopkins Scholarships, entitling the holders to free tuition, are now awarded by the Academic Council to graduate students from Virginia, and fifteen to graduate students from North Carolina. Applications, in accordance with a prescribed form, must be filed at the President's office *prior to May* 1.

Students can be recognized as candidates only when actual residents of the State from which they desire to be appointed, during at least the year next preceding their enrolment in the university. If the appointing board is not sure as to the legal residence of any candidate, the point in question shall be determined by the Executive Committee of the Board of Trustees.

These scholarships are all bestowed for merit, and are tenable for the year subsequent to the appointment, the holders being re-eligible.

Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited, because of frequent or prolonged absence, defective scholarship, or unworthy conduct.

Scholarships made vacant by resignation, by forfeiture, or by the non-appearance of worthy candidates at the regular times of selection, may be bestowed by the appointing board, at their discretion, upon other candidates who are found worthy, provided that the principles of this foundation are not departed from.

Holders of scholarships are not exempt from laboratory fees.

SCHOLARSHIPS FOR UNDERGRADUATES

I. Hopkins Scholarships

Sixteen Hopkins Scholarships are open to residents of the State of Maryland. They entitle the holder to free tuition, but do not carry exemption from laboratory fees. They are tenable for the year subsequent to the appointment, the holders being re-eligible. Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct. Holders of these scholarships are appointed by the Board of Collegiate Studies, in accordance with the following regulations:

1. Four scholarships are open, at the beginning of the session, to those who have just completed their matriculation examinations, and who stand best in a subsequent special examination in Mathematics, Latin, and Greek (or French and German), as required for matriculation.

2. Four are awarded in June to matriculated students whose records in the studies of the first year are most creditable. By "studies of the first year" is meant either the studies laid down for the first year in one of the regular groups, or such other studies, equivalent in amount, as may be approved of by the Committee on Scholarships and Honors.

3. Four are awarded for excellence in the studies of the second year, upon the same terms as in the case of the first year, provided that the candidates shall have absolved the "studies of the first year" as above defined.

4. Four are awarded for excellence in the studies of the third year upon the same terms as in the case of the second year, provided that the candidates shall have absolved the studies of the first and second years.

II. Washington Scholarships

The Trustees offer to residents of the District of Columbia two scholarships yielding free tuition. These, like the Hopkins Scholarships, are awarded to undergraduate students for merit, do not carry exemption from laboratory fees, and are tenable for one year, the holders being eligible for re-appointment.

III. Woodyear Scholarships

Mrs. William E. Woodyear, of Baltimore, gave to the Trustees in 1893, as a memorial of her husband, the sum of ten thousand dollars, in order to provide for the annual bestowal of five scholarships, of one hundred dollars each, under such conditions as the Trustees may from time to time prescribe. At present they are awarded to young men who are known to the President of the University to be in need of pecuniary assistance, and who, at the same time, have given evidence of character and ability.

IV. Maryland Scholarships

Twenty "Maryland Scholarships" are annually offered to residents of this State. They entitle the holders to free tuition, but do not carry exemption from laboratory fees. The scholarships are for the benefit of all parts of the State, and, accordingly, not more than one-half the number are awarded to residents of the city of Baltimore, and not more than one-half to those who are already members of the university. The appointing board consists of the President of the Board of Trustees, the President of the University, and the Dean of the College Faculty. The usual entrance examinations must be passed by the candidate, who must make application in accordance with a prescribed form; this must be accompanied by testimonials certifying to the applicant's character and pecuniary need. Students already in residence must apply *before June* 1; newly-entering students *about October* 1.

PRIZES

The John Marshall Prize

This prize was established in 1891 by a lady living in New England. It consists of a bronze replica of a likeness of Chief Justice Marshall, and is awarded annually by the Academic Council to that graduate of the Johns Hopkins University who has made within the year the most valuable contribution to historical or political science.

The Henrico Medallion

This prize is the gift (made in 1902) of the Colonial Dames of America, Chapter I, and consists of a copper medallion bas-relief commemorating the foundation of a university at Henrico, in Virginia, in the year 1619. It is bestowed in alternate years upon a graduate or student of the Johns Hopkins University, not more than ten years after his receiving the degree of Bachelor of Arts, as a recognition of special excellence in early American History.

The Tocqueville Medal

The Tocqueville medal is annually given to the Johns Hopkins University by the Baron Pierre de Coubertin, of Paris, and is offered by the university to that student who shall have written the best essay on some subject illustrating any phase of French History, political or social, from 1815 to 1890, or a review of some important historical work published in France since 1890. The medal is given in honor of the illustrious Frenchman, Alexis de Tocqueville (1805-1859), author of the well-known historical and political studies, "Ancien Régime" and Démocratie en Amérique." The conditions of the award may be learned at the office of the university.

The Sylvester Prize

The Sylvester Prize is the gift of several Baltimore gentlemen, and is offered to advanced students of mathematics as a reward for original research. It consists of a medallion likeness of Professor J. J. Sylvester, the first professor of mathematics in this university.

The Severn Teackle Wallis Memorial Prize

The Severn Teackle Wallis Memorial Prize was established in 1905 by the Wallis Memorial Association of Baltimore. It consists of about fifty dollars in money, and is offered to an undergraduate or a graduate student of the university for an essay on some subject connected with Spanish Literature or History, or for some original work done in either of said subjects.

The Adams Prizes and Medal

The Trustees set aside annually the sum of fifty dollars for the purchase of books to be awarded as prizes to the undergraduates who are successful in the annual public debate between members of the two higher classes. These prizes, which were originally offered by the late Professor Herbert B. Adams, are known as the Adams Prizes.

A gold medal known as the Adams Medal is also awarded annually to the best speaker in the public contest participated in by members of the second-year undergraduate class.

TUITION FEES AND EXPENSES

A. In the Philosophical Department

Tuition Fees

The charge for tuition is one hundred and fifty dollars per annum, payable at the Treasurer's office in semi-annual instalments, October 1 and February 1. There is no extra charge for instruction in any department of study, or for the use of the library and reading-room.

Gymnasium Fee

A gymnasium fee of five dollars per annum is charged to every undergraduate during his residence in the university, and the money thus acquired is devoted to defraying the expenses of the University Athletic Association. Graduate students who use the gymnasium are also required to pay this fee.

Fees are charged, as below stated, for registration, for material consumed in the laboratories, and for diplomas.

No deduction is made at the Treasurer's office because of absence for a period of less than half a year, or because a student gives only a part of his time to study, or because he belongs to but one class. Prompt payment of fees is required.

Registration Fee and Caution Money

Every student in full and regular standing is required at entrance to pay a registration fee of five dollars and deposit ten dollars as caution money, the latter being re paid to him when he leaves the university, if there are no charges against him.

Fees for Limited Attendance

Persons engaged in other pursuits—such as clergymen, lawyers, physicians—*who are able to give only a portion of their time to study, and who are prepared to follow graduate courses,* are permitted to attend certain courses of lectures, not exceeding five weekly, or to work in a scientific laboratory (without attendance on lectures) at such times as may be arranged with the Director thereof, on the payment, at entrance, of fifty dollars for the year, besides the registration fee and caution money. For a course of lectures not exceeding five weekly, with accompanying laboratory work, the fee is seventy-five dollars per annum.

In the College Courses for Teachers, the charge for instruction is ten dollars per year for each hour per week, payable in semi-annual instalments. Three hours of laboratory work are charged as one hour of recitation or lecture.

Laboratory Charges

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordinate subject, twenty-four dollars a year; for graduates and special students following Chemistry as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Physics: For students who work two afternoons a week, twenty-four dollars a year; for those who take Physics as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Biology: For undergraduates and for graduates who take Zoology, Botany, or Physiology as a subordinate subject, twenty-four dollars a year; for graduates and special students following a biological science as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Geology: Ten dollars a year; for a half-year, one-half of this amount.

Students taking courses in Geology are expected to take part in a series of excursions, and to pay their personal expenses, which will, however, in no case amount to more than $14.00.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Fellows by Courtesy and others who have the privileges of guests in the various laboratories, are expected to pay the usual laboratory charges.

Doctors of Philosophy of this university who desire to remain for a time in the university after having received their diplomas, may do so without charge for tuition, but they are required to pay the usual laboratory charges.

Exception to the foregoing charges can be made only at the written request of the Director of a laboratory, approved by the President of the university.

Graduation Fees

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy, ...	$10.00
Master of Arts,*	10.00
Bachelor of Arts, ...	5.00

B. In the Medical Department

The charge for tuition is two hundred dollars per annum, payable in semi-annual instalments, October 1 and February 1. There are no extra charges for matriculation, for graduation, for instruction in any department, or for laboratory courses, except in special cases for

*If a Master of Arts proceeds to the degree of Doctor of Philosophy, he will be charged but $5.00 additional for that degree.

materials consumed. To a student who does not possess a microscope, there is an annual charge of five dollars for the use of one, with an additional charge of two dollars for the use of an oil-immersion lens. One dollar is charged for the rental of a dissecting microscope for one year. The student is responsible for damage to the microscope thus rented. A deposit of ten dollars as caution money is required from each student at the time of his enrolment. The caution money is repaid to the student when he leaves, if there are no charges against him. Special charges are made for breakage and for damage to apparatus.

Payment of bills may be made at the office of the Registrar in the Physiological Building, which is open from 9 a. m. to 5 p. m., or at the office of the Treasurer of the University, on North Howard Street, which is open daily from 9 a. m. to 4.15 p. m.

The fees required of graduates of medical colleges who desire to follow special courses in medicine, are stated in detail in the annual catalogue of the medical department.

Living Expenses

The university has no dormitories or other living accommodations. Students may find comfortable homes in the vicinity,—in boarding houses or with families. The price of board ranges from three dollars and a half a week upward, and rooms from one dollar and a half a week.

Lists of desirable places are kept by the Secretary of the university branch of the Young Men's Christian Association and by the Registrar of the medical department.

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